		Number of Patients,			Number of Patients
Entally and Entally Cooly Depot		22	Muchoon Bazar	160	
Blyeium Row	P 22	2	Mullungah	***	4
Esplanade Row	3	2	Nimtollah Street		Section 1
Elisha Convent	77	1	Omratollah Street		1
Fenwick's Bazar	MIL.	-8	Park Street	- 1	OF L
Free School	117	4	Police Compound	1	1
Fort William		8	Puttuldangha	113	5
Gorastan Lano	-	2	Puttoreah Ghaut Street	Th-	2
Government Place	100	2	Police Hospital	3.0	- 7
Gowkhannah	444	3	Picked up by Police.	1	4
General Hospital	1,10	15	Rancemoody Gully	22.7	2
Garden Reach	100	2	Russell Street		100
Hautcolah		3	St. James' Street		F
Howrah	***	9	Strand		2
House of Industry	240	9	Sham Bazar	200	4
House of Correction	200	2	Shampooker	100	3
Jorasanko	140	13	Simlah	240	12
Jackson's Ghaut	ear!	- 3	Sukeah's Lane	in.	- 3
Jaun Bazar	.441	- 5	Sailors' Home	212	8
Jorahagaun	***	2	Sealdah and Sealdah Cooly Depôt	100	46
Kidderpore		4	Tank Square	144	2
Leli Bazac	-	2,	Taltullah	***	2.2
Larkins' Lane	****	7.	Tiretta's Bazar	225	3
Mendeebagaun	100	2	Tullah	***	3
Mangoe Lane	119	R 1.	Tollegunge	143	2
Maniektolluh	***	2	Tengra Cooley Depôt	***	4
Medical College Hospital	111	19	Wellesley Place		2
Middleton Row	414	3	Wellesley Square	315	5
Mirzapore	100	8	Wellington Square	in.	3
Moula Ally Durga	***	2	A PART LAND TO THE REAL PROPERTY OF THE PARTY OF THE PART		500 6
Moockeepara Lane	***	1991		115	
Moorghyhatta	***	2	Total	100	560

# II.—Table.

RESIDENCES (OR WHENOR THE PATIENTS CAME.)

WATER (SHIPPING AND BOATS IN THE HOOGHLY.)

	Number of	Patients		Number of Pstienta.
	the state of the	2 Ship Eliza	Reserva	13
Ship Art Union			100	1
" Alnwick Castle	TO 100	Bliza Benche	V44	20
" Alfred	THE 1800 112	Elizabeth Nicholson	277 1 299	1
, Amoney	SE VELTER SIA	L Erpress	241	I
. Burdwan	The same of	1 , Hampden	PARTY COLO	4-2
Bordgaus	Sald William	1 Ruddington		74.1
Redullamha	San	I Iron Duke		1
Beaumaris Caelle		I Isle of the South	- 1	1
Clydesdale .	40	James Crossfield		2
. Consel		Koina	1 - S - S - S - S - S - S - S - S - S -	13.0
David Maltohuson	Carlo Language - 17	Tinkining a		
	1 2 414		4. 4	1
Ethel	200	l' ,, Lincoln	-	-

	Number of Patients,			Number of Patients.
Ship Lady Melville  "Majura "Malabar "Maria Hay "Punjaub "Pride of Canada "Royal Albert "Royena "Rasult	1 2 1 1 1 3	Ship Tirrell ,, Thallata ,, Vancapellen ,, Victoria Nyanca ,, Western Empire ,, Wallace	6	1 1 1 1 1 2 58
St. Lawrence  Star of Albion  Simla	1	From Boats Total		e 14 e 87

#### 15 .- How the Disease spread.

It is well known that Small-Pox is an infectious nialady, and that it propagates by contagion. But during an epidemic, such as that which we are now passing through, the pestilence is in the air. This is proved by numerous circumstances. In the first place Small-Pox is not only raging here but throughout the Gangetic Valley, involving Mecrut; Beihi, Agra, Allahabad, as well as Calcutta. It prevails likewise in other Provinces; h stoth, I may say, that it is present now more or less everywhere in India. Such a universal outbreak simultaneously in many and distant places can be due to no other cause than an aërial poison, which enters into the system by the respiratory passages, and thus gives rise to its peculiar action even in individuals who take the utmost care against infection. That the disease is propagable by contagion and inoculation is no argument against the aërial agency. Secondly, the occurrence of it in persons who have avoided exposure to infection is another proof of the propagable by contagion and inoculation is no argument against the aërial agency. Secondly, the occurrence of it in persons who have avoided exposure to infection is another proof of the same fact. In epidemic years no one is safe against its attack. But not to waste any more words I beg to submit Table III, shewing the sixteen weekly Returns of the localities and ships from which the patients came in the order of time. This will best explain that there is no definite law respecting the extension of this awful pest in epidemic sensons. It does not advance step by step in the lines of human intercourse, nor is it confined to man alone, it affects birds and quadrupeds as well.

#### III.—Table

from 23rd December 1864 to 5th	TOTAL STATE OF	1987		Lall Bayar	0
rom General Hospital		10	33	Tank Square	JE 25 11 11 12 14
, Medical College Hospital	Children Street	1	23	House of Correction	Contract of the second
Talenllah	3-145	. 4	35	Bow Bazar	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
All Control of the Co	944	3	28		
" Collingsh	***	A	23	Cossitollah	1 100
, Ship Irondake	- 14 ***	1	22	Colootollah	The state of
,, Royal dibert	449		22	Chandney Hospital	1
n n Rowena	111	-1		Cossipore	2
, Police Hospital		6	19	Bamunbuatee	1
n Bamunbustee	100	1	33	Fenwick's Bazar	2
" Colootollah	11-1600	2	33	Collingah	9
Bow Bazar	- Our	1	30	Entally	A STATE OF THE PARTY OF THE PAR
Moocheparrah	S - The same	1	22	Taltuliah	The state of the s
icked up by the Police		4	E-190003	Ship St. Lawrence	1000
rom Cossitellah	- THE BOOK	R	33	Vancapetten	The state of the s
COLI COSTICUIALE	- ( )		12		The state of the
Proper Cak to the 1942 towns	1005		24	, Hampden	A STATE OF THE STATE OF
From 6th to the 12th Janus	wy 1005.	Mr.	32	Burdwan	1
			- H	From 18th to 19th J.	unuary 1865.
rom Dhurmteilah		2	1, LOAD	Bow Bazar	1 di 1 di 8
" House of Industry r		2	13	Howrah	12
Medical College Hospital	441	4	141 44	Cossitellah	3 3 3 3

	A Fac A				Strane.
From Collingah	1	2	From	Tullah	1
* Free School	mus !	2	175,2109	Cossipore	171
Marling College Hamital	-	2	23	Bamunbustee	1000
General Hounital	***	2	11	Larkins' Lane	O'BELLEVILLE
Tank Somere	- 11	ĩ	3)	Sealdah	-110
Chandrage	W 330 a	Ni.	33	Ship Lightning	70. (300)
Butany	419	2	D	dutin Zahalla	***
Claudchannal		2	11	James Changled	101
Poltulloh -	Service a	4	33		141
Muchoon Bazar	***	i.	72	, Bordeaux	117
Dhemtallah	111	î	33	Alnwick Cartle	100000
Riscoull Street		1	1 0	Ethel	The state of
Ship Hadlington	***	î	D		111
	110		-23	, Clyderdale	194
Duningh	11 TAY.	1	194	E 0 7 . Del 70	NAME
2) 210 L majano	***	1		From 3rd to 9th February	1805.
From 20th to 26th January	1865.		From	Simlah	SP.
			1 32	Sailors' Home	
rom Talmillah	****	2	. 22	Cooley Bazar	111
" Middleton Row	***	1	10	Mirzapore	111
" Mullungah		-1	111111111111111111111111111111111111111	Tultullah	5.00000000
House of Technoter		33	17	Mullungah	ACC. 1845. 15
Bow Bazar		12	32	Hewrah	515
Chandray	ALC: NO.	1950	33	Circular Rond	- 77
Cognitallah	Si alba	1	33	Dhurmtollah	SHOW!
Wolferton Sausto	***	1	32	Collingah	A-1120(C)
Tanleing Lana	100	3.	32	Muchooa Bazar	C-12/1-11
Chitman		1	25	Sealdah Cooley Depôt	416.5
Chowringhee	***	i	33		51.17415
	111	1	- 33	Jorasanko	100
Burraunggur	5		38	Mendee Bagan	1977 chil
Colootollah	ST. 375	2	32	Sealdah	The state of
, Fenwick's Bazar	1212	1	23	Bow Buzar	147
, Howrah	411	1	33	Chitpore	111
" Bamunbustee	100	2	22	Entally	All Miles
, Sealdah	- 111	2		Cossipore	464
, Dhurmtollah	444	3.	27	Fenwick's Bazar	- 19 W - 1
, Muchoba Bazar	11 442	1	33	Shampooker	2000
, Sailors' Home	275	1	93	Colootollah	572
, Ship James Orossfield	248	1	33	Gowkhannah	91
, Simlah	442	TI.	120	Chandney	42 111
		1937	99	Burtollah	F 48 3
From 27th January to 2nd Petri	uary 186:	5.	35	Baug Bazar	17
	A STATE OF		330	Allipore	Secret Se
om Circular Road	161	1	1)	Burra Bazar	F. V.Thail
Bow Bazar		ő	31	Cotton Street	- Winnis
Wallington Songra		1	. 1)	Larkins' Lane	
Diurmtollah		2		Ship Alfred	100
Wasa Salvad	4000	1	- 11	Mainea	T. Sec. C.
Chardney	9 111	1	33	Rasulf.	M. S. STON
Garage Hamital	3 ( 44)	1	23	Wastern Russins	18 1/4/2
Reitalzhonak	-Autorities	1.	- 23	7.imagla	- 10 11 1
		1	. 21		FILARE
Mirzapore	250 111 1	0	- 15	, Star of Albion	A PERSON
, Cooly Bazar	Committee of	3	17	Malabar	1211111
Midderpore	E 1210	7	- 11 -	30 Mataoar	1000
Medical College Hospital	300	1	W.E.	Enter 1046 to 1841 Dal.	1965
, Simlah	10 mm	- 1		From 10th to 16th February	1000
House of Industry	112.22	1	A - 11	The state of the s	511 541 12
Cotton Street	To design	3		Bow Bazar	1175
Fenyick's Bazar	1 1985	- 1	-	Collingah	N. 357.4
Chitpore	141	5	32	China Bazar	10 22 Miles
"Taltulinh	- the fi	4	33	Medical College Hospital	17 A C 4 C
" Estally	der.	3	13	Consitollah	4 6
Colontollah	144	2	12	Cooley Bazar.	41.74
	10110	1	-27	Circular Road	Mark Sale
					The second secon
Jaun Bazar	Draw I	2	2)	Tullah	The same of

From	Chandney .	245556	3	From Chitpore
ne.	Elisha Convent	1	1	Entally
	Sealdah C		3	, Fenwick's Bazar
"	Belgachie	With District Tollar	1	Simlah
28	Chitpore	WIDTERS TO	6:	, China Bazar
23	Jaun Bagar		2	, Jackson's Ghaut
	Entally	The state of the s	1	Custom House Ghaut
22	Fenwick's Bazar	neted or	2	Killagana Parking Company
23	Colootollah	BUT THE	4	Rhousenings
21	Simlah		2	Cotton Stand
33			ĩ	Whin Daile of Pounds
12	Cossipore	1		
472	*Balligunge	15 THE R. L.	1	,, ,, Eliza Beneki
32		Mary Sales	3	1) ", Wallace
32	Mullungah	PHYS. Law	1	n Clydosdale
22	Baug Bazar	BUTTER WIT	1	From 3rd to 9th March 1865.
27	Larkins' Lane	Falling	1	From Creek Bow
- 12	Talligunge	DOTON LA	1	,, Entally
11	Howrah	STORE IN	1	, Medical College Hospital
	Burra Bazar		1	,, St. James' Street
73	Chowringhee .	Total .	1	Bow Bazar
	Mirzapore	de la	2	, Chowringhee
73	Ship Hampden	Santo Se	1	Concest Homital
23	,, Rowena	Street Street	1	Carlow Dana
32	WI a Planta	one Mems	i	TVL
33	Tale of the Routh	Contract of State of	i	Souldale Cools Double
3.9	Y 1. 24. 1		94	Desidan Coory Depot
32		1000	-	Taltullah & Bhowanipore
- 72	Sailors' Home	Manual Francisco	1	The state of the s
	From 17th to 28rd Februa	ry 1865.		, Chitpore
遥.		ALIENE LEAD	94	" Jaun Bazar
rom		ALTO COLOR	8	" Simlah
23	Fort William	1 100	2	,, Jorasanko
31	Strand	E-WI-	1	" Baug Bazar
35	Free School	CONTRACTOR OF	1	" Entally Cooly Depôt
	House of Industry		2	, Fenwick's Bazar
27	Cossitollah	STORY OF	1	Calantallah
35.	Sealdah		7	Stand
31	Middleton Row	State of the state	i	
33	Jana Bazar	THE PLANT	10	" Mirzapore " Banksball
.17	Entally	100	8	
23	Colottollah	A STATE OF	2	, Sailors' Home
47	Taltullah	THE RELL OF	- 1	" Ship Victoria Nyanea
23	The state of the s	10000	1	" Klizabeth Nicholson
13	Collingah	71-11-1	-	From 10th to 16th March 1865.
13	Bow Bazar	diversion.	L	From Bow Bazar
29	Jorasanko	43	2	, China Bazar
33	Соявіроте	3.	1	n Enterty c
32	Doorgapore	1	1	, Raneemoody Gully
33	Bhowanipore	and in column 24	1	Jorasanko
32	Shampookur	THE PERSON	2	Taltullah
37	Sham Bazar	char el ryu	1	Entelly Cooler Double
33	Sailors' Home	THE STATE	2	Coloofallah
907.09.2	Ship Beaullamka	MARINE TO S	I	Sanlink Cont. Don't
3)	PERSONAL PROPERTY AND ADDRESS OF THE PERSON ADDR	With State of the	20	Bone Boney
P	rom 24th February to 2nd h	larch 1865.	14	
-	Moorghyhatta	1 30 20 2m	3	,, Simlah
		Sec. 12. 15-11	0	" Cotton Street
31	House of Industry	Company of the	3	" Fenwick's Bazar
12	Medical College		1	" Circular Road
21-	Bow Bazar	4 757 -	2	" Chitpore .
33	Cossitollah	29 11	3	, Cossipore
32	Sealdah	1	7	Bhowanipore
93	Strand	1000	1	Custom House Ghant
33	Howrah	* A BY PAR	2	Alinava
	Middleton Row	PER CHAPTER !	1	Strong
178	Collingahe	AT THE PARTY	4	Chin William
27 4	Garden Rach	THE STATE OF THE S		, Ship Eliza
23	Baug Bazar	the sections		m money
38.	- Carrier Carrier	Dalle to	7	n Rowena

From 17th to 28ed March	1865.	JE 2	From 31st March to 8th Ap	ril 1865.
	March All	Fre	om Cossitollah	编列第二十二
From Taltuliah	101	1 1		10 4
" Bow Bazar	FI = 1.1	1 2	, Cooley Bazar	The state of the s
" Boug Bazar	Marie All	1 5,	Bhowanipers	Addition 3
no Chitpore	Mar I	2	, Chitpore	THE RESERVE
, Tengra Cocky Depôt	No.	2	Jackson's Ghaut	1
" Cooley Bazar	Walter and	1 ,	Qiantah	new year
Entally	148	1 ,	Callingah	THE SAME OF
Entally Cooly Dapôt	7 - 111 - 13	1 "	Bayes Barren	
" Circular Road	111	1 0	Q11.L	
Simlah	4 44	1	Scoldale Caste Donte	- T. Ind. 1
Bhowanipore	A. Carrier	-"	Cather Charles &	
Tuetom House Chant		1 2	Food Williams	
Chase Ravan		1 "	Tayrasaha	
Cossipore		A H	Hateolah	1199
Cotton Street		575 All	Dark Chang	F. 1994
		1 11		311
" Police Compound	All their transfer	1 21		100
, Ship David Malwhuson	125		, , Maria Hay	lie -
, Beaumariz Castle	111	2	From 7th to 13th April	1865
,, Cunsel	140	10	PROPERTY OF STREET, ST.	
		T ro	m Medical College Hospital	4
* From 24th to 30th March	1865.	- 33	Bhowanipore	PERCHANTAL PROPERTY.
	Section 1	733	Chitpore	2
from General Hospital	BOTTON OF	1 "	Jorasanko	William Control
Medical College Hospital	Maria Carlo	F 11	Cassinara	4
, Custom House Ghaut	BULLEY !	8 ,,	Datalla	
2 Chitpore	TO WELL	1	Entalle Coole DonAt	1
Catton Stant	DIVILLE.	2 20	Fort William	Variable Co.
D Danie	***	1 "	Doutallak	Wildow Door
Saldah Cashe Danks	Control of	10 "	Tanaga Casta Danis	
The same lines	MAGNETY PE	4 22	Cham Dans	
	444	0 17		No. 1
" Tullah	120	W	Sealdah Cooly Depôt	The second
, Taltullah	***	- 11		STATE OF THE PARTY
" Miccapore	1 444 15	1. 11		2
, Entally	1 1 1 1 H	1		ALL THE
, Simlah	The sea my	] ,,,	Cotton Street	- 12 1
Sham Bazar	1 Terr - 1	1 "	Ship Lady Motville	
, Nimtolluh	7000	1		
Ship Maria Hay		A	Total	627

Nevertheless it is prudent to adopt every available means against infection. Isolation and confinement do this to a certain extent, and so does also the immediate destruction of every article-that has once been used by a Small-Pox patient. But it is here where our principal difficulties lie; some people will not listen to reason and are quite satisfied if their clothes are washed to wear them again. Others again are either too poor or too ignorant to be persuaded to part with their clothes. The result is that the clothing of all these people meets the clothing of others who are more careful in the house of the washerman, and are often put into the same boiler and the same washing the. What follows next can be readily understood, i. e., the clothes of the careful and the clothes of the careless become equally impregnated with infectious matters if any still remain attached to them. But it is not the clothing only by which the contagion spreade. It is also promoted by overcrowding, uncleanliness, and defects of ventilation. In a poor man's house, perhaps, there occur two or three cases of Small-Pox. The house cannot be deserted; on the contary it is crowded with immates. But the sick will not go to Hospital, nor do their friends urge them to go. They have no fear, and so they handle these cases, sit down on their beds, and then go about their business in the bazar and other public places without washing their hands or changing their on the same caused are in operation in an exaggorated degree in the various Cooly Depôts, and hence the great number of cases that come from those places.

It is almost impossible by say law or any amount of precurition to prevent the spread of Small-Pox in this manner. Time and enlightenment may do much; but the great remedy which none of these circumstances can touch is the practice of vaccination, which, if repeated once or twice, will more effectually check the disposition of the body to take the disease than any amount of prosperity, cleanliness, or ventilation.

# 16. - Analysis of Cases.

I beg to submit here Tables IV, V., and VI. prepared at three different stages of the

Table IV. gives a return of the admissions, deaths, recoveries, and remaining from the 23rd December 1864 to the 9th February 1865, respectively, of the European males and females, and the Native males and females.

#### IV -Table.

Return of the Small Pox Rospital from 23rd December 1364 to 9th February 1865.

Chitpore, 10th February 1885.

		Admissions.	Deaths.	Discharges.	Remaining.	Mortality to admissions per 100.
	Male	109	21	. 47	41	10 \$486
EUROPRANO.	" Female	10	2	8	6	20 •
	Total	119	28	. 60	46	
	Mate	128	87	82	54	30.8
NATIVES	Female	20	9	8	9	40-
14.60	Total	143	45	85	08	All The Late of
On	nd Total	202	68	85	109	25.95

Table V. gives a similar return from the 23rd December 1864 to the 9th March 1865.

#### V.-Table.

Return of the Small-Pos Haspital from 23rd December 1884 to 9th March 1985.

		Admissions.	Deaths.	Discharges.	Remaining.	Mertality to admissious per 100.
	Male	165	42	91	82	2547- 1
EUROPEANS	Female.	19	4	- 6	9	21,5
	Male	240	100	70	61	41# 0
NATIVES	Female.	4 60	84	13	18	664 . 344
	Total	484	180	189	115	871

Table VI. gives a third return of the same kind from the 28rd December 1864 to the

#### VI - Table.

From 28rd December 1884 to 18th April 1865.

		Admissions.	Deaths.	Recoveries.	Remaining.	Mortality to admis-
	Male	188	- 51	127	10"	27-12
EUBOPEARS	Female	23	5	16		21.73
· Lances	(Male	817	184.	149	84	42:27
NATIVES	Female	99	59	81	9	-59-50
	Total	627	240	828	-55	39'71

The first of these Returns extends over a period of seven weeks, and yields admissions 262, deaths 68, recoveries 85, and remaining in Hospital 109.

The second Return extends over cleven weeks, and yields admissions 484, deaths 180, recoveries 189, and remaining in Hospital 116.

The third Return extends over sixteen weeks, and yields admissions 627, deaths 249, recoveries 323, and remaining in Hospital 55.

So that while during the first seven weeks the admissions on an average were 5.3469 per diem, during the next four weeks they were as high as 5.9285, but falling sgain in the last five weeks to 4.0857 a day.

The death rate in the first period of seven weeks is 1.387 a day, in the next four weeks 4.14 a day, and in the last five weeks about two a day.

Table VII. exhibits the admissions and deaths during the whole sixteen weeks at different ages.

Under the age of 5 years there were 87 admissions and 11 deaths.

	0	22	10	н	37	30	in .	Д "
	-27	- 21	1.5	70	IJ.	88	72.	2 ,,
No.		32,	20	29	n	126	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	48 ,,
	25	12	39	93	39	310	"	142
	11		40	n	22	. 69	н	\$1
	100	2)	50	N 4	,,	15	77	• 6 ,,
	-	77	80	99	- 27	4	7.50	2 4
• 12 Apr 14		30.0	70	72	'n	1	1 2"	100 m
	<b>∆</b> bove	12	70	32	"	100	12	

#### VII.—Table.

Admissions and Deaths at Different ages.

From 23rd December 1864 to 13th April 1865.

STATE OF SHARE	AND CONTRACTOR					77.7.7.7	28 30 10	and the same	ALC: NO.	16. 2 100.	
		Under 5 years.	Under 10 years.	Under 15 years.	Under 20 years.	Under 30 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 79 fears.	Under 80 years.
EUROPEANS	Male	6	5	7	86	106	19	8	1	e 0	
	Female	. 2	5	8	0	6	. 0	1	Q	0	
	Male	18	16	19	68	162	88	Б	1	1	
NATIVES	Female	- 11	5	4	16	48	12	1	4	0	
	Total	87	80	88	126	810	69	16	6		
	Deaths	11	7	2	48	142	31	G		. 0	53
Percentage of admissions	mortality to	29.70	28-83	6	38	45.8	44-9	40	38.8	• 0	

Tables VIII., IX., X. give the admissions and deaths of the unprotected and pro-

tected persons.

Table VIII, is for the first seven weeks. During this time there were 132 admissions of unprotected individuals, out of which 39 died; 7 admissions of the vaccinated too late, 4 twice vaccinated, 1 vaccinated and had also the Small-Pox before, 8 had only Small-Pox before; none of these classes died: 70 vaccinated once, out of whom 21 died; 40 inoculated, out of whom 8 died.

#### VIII - Table-

Return of the Small-Pow Hospital from 23rd December 1864 to 9th February 1865. and Deaths of the unprotected and protected.

			Unprotected.	Vaccinated too late.	Vaccinated twipe.	Vaccinated once.	Vaccinated and hadalsoSmall. Pox before.	incentated.	Had only Small. Pox before.	Grand Total.
	(Male	17	88	0	41		155		-	100
UROPELNS	" ( Female	481	6	1-	0)	65	11	0	0	
1 1 1 1 1 1 2	Male	200	80	5	07					
NATIVES	"[Female	100	10	1	10	5	0	40.	A STATE	
	Total ,	***	182	7	4	70 •	11	40	8	262
STIETE W	d Died		- 39	0	0	21	0	8.5	0	68
Percentage of missions	Coortality to	ad-	29 54	0	0	. 80	0	20	0	28-95

Tabled X, is for the whole eleven weeks to 9th March. Up to that date the unprotected admissions had mounted up to 250 with 135 deaths; the vaccinated too late to 25, had Small-Pox before and got it again on re-vaccination 4, vaccinated twice 12, vaccinated and had also Small-Pox before 1, the last four classes without any deaths; vaccinated oace 123, deaths 31; inoculated 55, deaths 15; had only Small-Pox before 14, death 1; grand total of deaths 180.

#### IX .- Table.

Admissions and Deaths of the Unprotected and Protected.

From 28rd December 1864 to 9th March 1865.

	Unprotected.	Vaccinated too late (some after previ-	Had Small-Pear be- fore, has got it again now on vac- cination.	Vaccinated twice.	Vaccinated once.	Vaccinated and had also Small-Pox before.	Inconlated.	Had only Small Pox before,	Grand Total.
(Male	57	1		9	97	1	17.3		165
EUROPEANS . { Female	8	1		1	9	****		444	19
( Male	146	14	2	2	12		51	13'	240
NATIVES . Female	39	9	2	100	ă	.1.,	4	1	60
Total	250	25	4	12	123	1	55	14	484
Deaths	133	*****	,,,,,,		31		15	1	180
Percentage of mortality	534				254		27 3	71	87.

Table X. is for the whole sixteen weeks to 13th April. Up to that date the unprotected admissions were \$64, deaths 185; vaccinated too fate 27, had Small-Pox before and get it again on re-vaccination 5, vaccinated twice 12, vaccinated and had also Small-Pox before 1, Small-Pox twelve days after vaccination 1, no deaths in these five classes; vaccinated once 148, deaths 43; inoculated 05, deaths 20; had small-pox before 14, death, 1; grand total of deaths 249, and admissions 627.

#### X .- Table.

Admissions and Deates of the Unprotected and Protects

From 23rd December 1864 to 13th April 1865.

		Unprotected	Vaccinated too late.	Had Small Pox before, has got it again now after vaccina- tion.	Vaccinatedtwice.	Vaccinated once.	Vaccinated and had also Small- Por before.	Got Small-Pox eruption twelve days after vaccination.	Inoculated.	Had only Small-	Grand Total.
	Male	66	1	1 54	9	110	1	0	0	O <sub>0</sub>	188
Europeans	Female	10	1	0	1	11	0	0	0	8	23 •
	Male	207	15	2	2	20	0	0	58	13	317
NATIVES	Female	71	10	2	0	7	0	1	7	1	คอ
	Total	854	27	5	12	148	1	1	65	14	627
T.	Deaths	185	0	0	0	48	0	0	20	sl.	249
Percentage of :	mortality }	52.2	0	0	0	29	0	0	30.8	714	89#1

Table XI. gives the admissions and deaths in the different varieties of Small-Pox. There were 50 admissions of variola discreta and 1 death, 19 admissions of variola mitigata and 2 deaths, 3 admissions of variola corymbose and 1 death, 555 admissions of variola confluent and 245 deaths; grand total of admissions 027 and of deaths 249.

#### XI.—Table.

Admissions and Deaths in the different forms of the disease,

From 28rd December 1884 to 18th April 1885.

			Variola Mitigata.	Variola Discreta.	Variola Corymbosa.	Variola Confluens.	Grand Total.
The state of the s	Male		13	15	8	157	-188
EUROPEANS	Female		2		0	16	23
	Male		11	10	0	297	312
NATIVES	Female		3	11	0	f. 85	99
	Total		19	50	3	556	627.
	Deaths	1	2	113	1	245	249
Percentage of admissions	mortality	to}	10.5	1 2	33.3	44:144	39-71.

The admissions and deaths of Europeans and Natives are shewn in Tables IV. V. VI. VII., VIII., FX. X. and XI. of both sexes under the different headings under which admissions and deaths have been already considered.

I beg to draw attention now to the ratio of mortality.

The mortality to admissions per 100 was up to 9th February for Europeans, males 13:3486; females 20; and Natives, males 30.8, females 40; general mortality 25:95; up to 9th March for Europeans, males 25; females 21; and Natives, males 41; females 25; general mortality 87; up to 13th April, for Europeans, males 27:12, females 21:73; and Natives, males 42:27, females 50:50; general mortality 89:71.

Taking the deaths and recoveries up to 18th April they stood as 77.039 to 100. But taking the sum of deaths and recoveries up to the same date, the percentage of mortality is 43.53, while the mortality to admissions per 100, as I have already shown, is 39.71.

The ratio of mortality at different ages is as follows:—Under five years 20:70 per cent., under ten years 23:83, under fifteen years 6, under twenty years 28, under thirty years 15:8, under forty years 44:9, under fifty years 40, under sixty years 33:8, above sixty years nil.

Up to 9th February the mortality for the unprotected was 29.5k per cent., for the vaccinated once 30 per cent, for the inoculated 20 per cent. Up to 9th March it changed for the unprotected to 53½, for the vaccinated once to 25½, for the inoculated to 27½, and for the previously affected with Small-Pox to 7½ per cent. and up to the last date, i. e., 18th Aprils is for the unprotected 52.2 per cent., for the once vaccinated 20, for the inoculated 30.8, and for the previously affected with Small-Pox 7.14.

The mortality among the cases of variola discreta has been 2 per cent., variola mitigata 105 per cent., variola corymbosa 33.8 per cent., and variola confluens 44.144 per cent.

Table XII. shows the mortality for each day ofter admission, and that the so-called critical Mays are the 2nd, 3rd, 4th, 6th, 7th, 8th and 9th days, although death seems to occur on other days as well up to the 46th day after admission, or, say, of the disease. 26th, 28th, 30th, 31st, 32nd, and 54th to 44th, however, were blank days on which no deaths took place.

#### XII .- Table.

MORTALITY FOR EACH DAY AFTER ADMISSION SHEWING THE ORITICAL DAYS.

From 23rd December 1864 to 13th Speil 1865.

Number of deaths.	Number of days after admission.	Number of deaths.	Number of days after admission.	Number of deaths.	Number of days after admission.
	83	4	17		
{	84	5	13	19	d 0 **
(	85	1	19	24	. 8
1 (	36	4	20	24	* 4
(	37	2	21	- 13	5
9	38	8	22	• 19	* 16 m h
9	39	8	23	21	7.
}	40	1 1	24	26.	. 8 a
	41	1	25	19	9
	4.2	4 0	26	9	1 1 1 1 1
	4.5	4	27	10	
	4± 45	0	28 -	. 0	12
	16	7	• 30	5	* -13
7	4 3	9	31	. 5,	14.
otal . 241	P 17	0	32	7	15

Table XIII. shows the average and the longest and shortest times of duration under different conditions. The average duration of the disease in the 627 cases before all mission was 5.49 days, in the Hospital 13.50 days, in cases of death 3.8 days, in cases of recovery 28.50 days. The longest time in the Hospital for recovery has been ninety two days and the shortest two days.

#### XIII -Table.

SHEWING THE AVERAGE TIMES.

From 23rd December 1880 to 13th April 1865.

					1 14	
Number.	Average dara- tion before al- mission.	Average dura- tion in Hos- pital.	Average time of death.	Average time of redovery.	Longest tême in Hospital for recovery.	Shortest time in Hospital for recovery.
			Sept.			
627	549	18.50	8.8	28.50	92	2

17 .- Description of the Small-Pow as seen in this Hospital.

To make what I have to say as plain as possible I shall commence the description of the disease in the following order, i. e., let Incubation, 2nd Initiatory Fever, 3rd Eruption, 4th Development, 5th Maturation, and 6th Desiccation. After this I shall notice complica-

tions, convalescence, and sequelac.

Incubation.—During so universal an epidemic as that which is raging now in this country, one of the most unsatisfactory tasks that a Physician can impose on himself is to undertake the work of ascertaining the length of the stage of incubation of Small-Pox. undertake the work of ascertaining the length of the stage of incubation of Smail-Pox. Df. Gregory has set it down in cases of infection at twelve days, and in those of incentation at seven or eight days. But even he is not positive on this subject. My own opportunities of adding any information on this point have been very small. But so far as they go I have reason to agree with Dr. Gregory, as a general rule, in cases of infection. Sumatra, a Native woman about thirty years old, came into the Small-Pox Hospital with her little boy, who was three days ill with Small-Pox, on the 28th March. On the 6th April she was herself-seized with a strong fever which continued for forty-eight hours, and then subsided on the occurrence of a papular cruption on her skin on the 8th. On the 16th April she was covered with well-formed pustules densely all over, each surrounded by a distinct red areola, and filled with a turbid light yellowish fluid. On the face and forchead the pustules were confluent and more advanced than on the body and limbs. advanced than on the body and limbs.

In this case it is presumable that the woman was infected by attendance on her boy, which gives for the inpubative stage exactly twelve days. I know, however, of other cases in which the length of this stage is at least doubtful. One gentleman, who had been vaccinated and likewise had the Small-Pox three years before, was roused out of his eleep in the middle of the night by a most disgusting smell. The venetians had been open and glass-shutters unclosed. On enquiry he found that there was a Small-Pox corpse lying in a hat just under his window in the adjoining promises. In the morning he was seized with rigors ushering in a strong fever which lasted for farty-eight hours, and ended in a mild clop of Squall Pox pustales. Here apparently the stage of incubation hardly lasted for six hours, though it is probable the infection had entered into him before, as his wife, who slept in the same bed,

neither felt the bad smell nor got the disease.

The initiatory fever in no case has been less than forty-eight hours, but in some, owing to modifying circumstances, it has lasted much longer as a week or ten days before the appearance of the cruption. It has been always marked by an aching of the head, and a severe pain in the middle of the back and at the pit of the stomach, and somotimes violent

The emption has appeared differently in different cases. Sometimes it has come out like The errotion has appeared differently in different cases. Sometimes it has come out the minute vesicles, which became gradually enlarged, filled with a transparent lymph, ambilicated in the centre, and at last occupied by a well matured pus. Sometimes it commenced as little red points, like mosquito bites, became then gradually larger, more prominent, vesicular in the middle of the inflamed spot, umbilicated in the centre, filled with a transparent lymph, and, at last, matter. Sometimes patches, like those of crysipelas, made their appearance; and on at last, matter. Sometimes patches, like those of eryspens, made their appearance; and on these groups of vesicles formed which went through the same changes as in the other cases. Very often it first appeared as papules, such as are seen in lichen, and then passed into the vesicular form, seldom into pustules. At other times it formed hard prominences, such as are caused by the common house bug, and then became inflamed, vesicular, filled first with lymph, and then pus, passing in fact through the usual changes of the pustular form. Vith regard to the time occupied in the full development of the scuption, sometimes the full crop broke out in one night, at other times it took days before it was completed.

From the commencement of the eruption to the full maturation of the pustules, in favorable cases, there has usually elapsed a period of seven or eight days; but in many cases of low vitality the eruption never advanced beyond vasicles; whilst, in others again, it stopped short at papules or red points. Lastly, in a few cases, the febrile disturbance subsided after forty-eight hours without being followed by any eruption whatever, or by something

extremely anomalous.

After the eighth day desiccation set in first on the face and forshead, and afterwards on the body and extremities. In the pustular variety this gave rise to scabs on the bursting of the pustules, which gradually fell off in a fortnight or three weeks. In the vesicular variety with depression of vital power, the resides burst without maturation, and from the denuded dermis there flowed a gummy discharge like that of impetigo, which, drying, formed a thin pelliefe of crust on the surface that cracked and gave rise to an intolerable itching, only par-lially allayed by frequent ablution. The last variety offered almost always the worst specimens

of confluent Small-Pox, and more frequently proved fatal than otherwise.

The complications observed were, firstly, extension of the cruption to the mucous surfaces of the nostrils, month, pharyax, laryax, and traches; secondly, pulmonary congestion; thirdly, diarrhon and cholern; fourthly, dysentery; filly, mental affections, attended with violent delirium; eixthly, disease of the nervous system, giving rise to a general and frequent shivering of the body. All these were of serious import, but not necessarily fatal, as several cuses have recovered in spite of them. Convulsions sometimes occurred before the outbreak of the eruption, but never afterwards. Conjunctivitis was met with in about a dozen instances or more; violent inflammation of the penis and scrotum in two, out of which one recovered; and a bulloo in one who is just recovered. The convalescence usually occupied a considerable time, as will be easily understood by a reference to the average time in the Hospital in cases

of recovery, which, I have already stated, has been 26 50 days.

During the convalescence many patients have suffered from a number of sequelae.

Troublesque ulcers, boils, abscesses, sloughing of the cornea, bowel-complaints, and secondary fever have been exceedingly common. In fact, all the deaths in the later stages of the disease that a coursed by the two last classes of maladies. The sloughing of the cornea ended in lose of sight in one eye in three instances only; all the other sequelae were successfully managed, and the patients ultimately carried through and discharged cured. The pitting of the skin has been far has than I could have expected; this result I attribute to the free and early use of baths.

#### 18 .- General Remarks.

Monder this head I have first to speak of the influence of vaccination and inaculation on

the liability to Small-Pox.

As a general proposition it is now everywhere admitted that the liability to Small-Pox is lessened by both these operations, but it is not allowed that it is altogether annulled as was first supposed. People who have been vaccinated or inoculated are still liable to attacks of Small-Pox, though in a diminished degree. This diminution of the risk is greater from inoculation than vaccination, and the popular belief in this case is perfectly correct. This is borne out by Table X., which gives 160 persons as having got Small-Pox after previous vaccination, whereas only sixty-five persons were affected with the disease after previous inoculation. This result, obtained in a country where inoculation has been the rule and vaccination the exception, is a most significant fact. But while inoculation reduces the liability to Small-Pox, its influence on the mortality, when the disease occurs, is far less than that of vaccination. While no deaths took place after re-vaccination, and only 20 per cent, of the once vaccinated died, the percentage of deaths among the inoculated was 30 3, that of the entirely unprofected being 52.2. The operation of inoculation itself gives rise to variolous pustules which cannot be distinguished from those of the spontaneous disease; but vaccination causes a medified affection, vaccina, not to be confounded with the Small-Pox, the eruption of which can be seen to progress side by side with the vaccine pustules. In the Chitpere Hospital I have had twenty-cight instances of this association up to 13th April. Is the majority of these the Small-Pox showed itself within three to ever days after As a general proposition it is now everywhere admitted that the liability to Small-Pox is

vaccination, in some still later, and in one case not till the expiration of the lath day. I do not think, therefore, that the liability to Small-Pox is ever altogether destroyed by vaccination or inoculation. Cases have not been at all uncommon of the occurrence of Small-Pox within the first year of the vaccination, any within a few months. But though the liability to the disease is not abolished, the liability to death in such cases in certainly vasily reduced. These remarks apply, however, only to epidemic years. In ordinary times it is not usual for the vaccinated or the inoculated to take the Small-Pox. The percentage of mortality from Small-Pox in non-epidemic years is by no means very large; but in spidemic mortality from Small-Pox in non-epidemic years is by no means very large; but in spidemic mortality from Small-Pox in non-epidemic years is by no means very large; but in epidemic years it becomes positively appalling. As observed this year in the Chitpore Hospital it has been 3071 per cent. of the admissions, and 48:58 of the sum of the deaths and recoveries.

been 30.7) per cent. of the admissions, and 43.58 of the sum of the deaths and recoveries.

In the temporary Small-Pox Hospital for Natives in Bow Bazar Street in the year 1857 the total number of patients admitted was 121, and deaths fifty-four, giving thus 44.628 deaths per 100 of the admissions, or of the sum of the deaths and recoveries.

In spite of the vast number of unprotected cases (354 out of 627) this year the vatio of mortality has been only 43.53. Dr. Gregory says the extremes of mortality he hade seen in the Small-Pox Hospital, London, were 15 and 42 per cent., the latter chiefly in epidemic years. Now my mortality is not much different from this; and, considering the circumstances of the two countries, and that while vaccination is the rule in England, it is here the exception, it is wonderful that the difference is not much greater.

A striking fact presented by Tables 1V., V., and VI. is the gradual increase of the percentage of mortality in proportion to the length of the epidemic. This is explained by the relative proportions of Europeans and Natives in the different stages of the epidemic, and also of mules and females. In the earlier part of the time embraced by this Report the Europeans preponderated over the Natives, and there were very few females. In the later Europeans preponderated over the Natives, and there were very few females. In the later weeks the Natives were nearly twice as numerous as Europeans, and the propertion of Native females was also increased. Now, as the death-rate is higher among the Natives than among the Europeans, it follows that with the increase of the former there was an increase also of the death-rate; and with the increase of the Native females a still further increase as they died oftener than Native males.

Another interesting fact which I wish to record is that not one case of infections

occurred among the large number of persons employed in the Hospital.

#### 19 .- Special Recommendations.

As this is the third time within a few years I have been honored with the charge of a temporary Small-Pox Hospital, I feel it to be a duty to offer some suggestions on this point. The great difficulty always felt whenever a Small-Pox Hospital is needed is in finding a suitable locality and a suitable house for it. Landlords are naturally unwilling to let their houses for such a purpose, because, being only temporarily required, they soon become tenantless us no one likes to live in a house which has once been used as a Small-Pox Haspital. Nor is it right. in Government to resort to so questionable an expediency. Laws have been made to prohibit the practice of inoculation within the town, and to prevent Stable-Keepers from hiring out their vehicles for the use of Small-Pox cases. Why should not a stop also be put to the for-

mution of Small-Pox Hospitals in houses set spart for private dwellings a Then, again, could say dwelling-house, however large, have conveniently accommodated the vast number of patients we have had in the Chitpore Hospital this year? Where would be the advantages of an unlimited supply of water and pure air?

For these reasons I would submit the expediency of forming a permanent Small-Pox Hospital this year?

pital. Besides, the cost of a temporary one is very great, for the furniture, charpoys, cots &c., have all to be got new and destroyed each time; and the inconvenience of erecting hasty accommodation is troublesque as well as expensive. I think there was good judgment in selecting the present site at Chitpore as proved by the issue, and I would recommend that this place with all its buildings and present establishment, with such alterations and additions as may be found necessary, be permanently retained.

This would avoid all the worry and auxiety heretofore experienced on the approach of an epidemic, and really save Government money. Such a Hospital could also be employed during the middle of the property and auxiety heretofore experienced on the approach of an epidemic, and really save Government money. Such a Hospital could also be employed during the middle of the property and auxiety here are all property and auxiety here are a property and all the more are all property and auxiety here are all property and all property are all property and auxiety here are all property and auxiety here are all property and all property are all property and auxiety here are all property and all property are all pro

cholera epidemics, when Small-Pox is not prevailing, for the reception of cholera cases which

now dangerously overcrowd the other Hospitals in the town. 20.—Conclusion.

In conclusion I beg to appropriate for the great delay in submitting this Report, and to hope that its many imperfections will be kindly overlooked. I am only sorry that it is necessarily incomplete, as the epidemic is not yet over; but I trust the matters I have brought forward will nevertheless find some permanent record.

> S. G. CHUCKTEBUTTY, M. n., (Sd.) Assistant Surgeon, in Medical charge, Small Pox Hospital.

The 20th April 1865.

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#### APPENDIX.

I see to insert in the Appendix the return for the week ending on the 20th April, shewing these admissions from the Ship Eagle Speed lying at Port Canning. The disease seems to be spreading in that direction, for I have had other cases since then.

(Sd.) S. G. CHUCKERSUTTT, M. D.,

Assistant Surgeon, in Medical charge, Small-Pox Haspital.

. Weekly Statement of sick in the Small-Post Hospital from Friday, 14th, to Thursday, the 20th April 1865.

Chifvore, 21st April 1865.

		ş. 1	Evzo	<b>P</b> &A219					NAT	IVES.		
	Remained.	Admitted.	Total.	Discharged.	Died.	Remaining.	Bemained.	Admitted.	Total.	Discharged.	Died.	Remaining.
Male	10	8	19	4	9	16	84	4	38	7	4	27
Female	2	0	2	2	0	1	8	1	30	4	1	5
Grand Total	12	9	21	5	Đ	16	48	Б	48	11	5	32
From Ship En Easters' Medical Entally	glo Speed of Home College Ho	Lond	on .	e socel	1 A A	1 3 3 1 1	1	m Ch All La Fo	itpore ipore if Ba: rt W	e zar illiam re		1 1 1 1 1 1
. Total					111	9			Tota	al		5

(Sd.) S. G. CHUCKERBUTTY, R. D.,

Assistant Burgeon, in Medical charge, Small-Pox Hospital of Chispore, From S. G. Cauexensurry, Esq., M. D., Assistant Surgeon, in Medical charge, Small-Por-Hospital to J. Anderson, Esq., M. D., Deputy Inspector-General of Hospitals, Presidency Circle,—(dated the 27th April 1865.)

The undersigned begs to forward the following corrections of, and additions to, the items of the cost of the Hospital in consequence of accurate information just faceived from the · Barrack Master's Department :-

		Ca	presctions.	•	•4	Sta.	As. P.	
	4:43	Cots, wooden frame, at Rs. 11 each ,, iron frame, at Rs. 28 each			144	478 46	0 0	أمر
	* "	Difference between this and the esti	mated price	***	***	79	-p- 6	
			dditions.			Ľ		
	2	Serjeants' Chairs, at Rs. 4-8 each	918	411	1++	9	0_0	
	1	Form with back	* *			12	0 0,	
4	5	Lamps, Barrack, at Rs. 4-8 each	4.4	***	191	22	8"0 '	
	5	Burners, Glass, at 6 annus each	*			1	14 0 *	200
	1	Table, small Dispensary Table (not received)	kee "		1++	18	0 0	
	5	Wick-holders, at I amon each	- 1			0	5 0	
	Ţ	Bath Slipper		11	***	13	0 0	
		Commode frames with pans, at Rs.	5-4 each	100	491	52	8 0 0	
		Bedeide Tables, at Rs. 4 each.		h w	411	100	0.0	
	1	Toilet Table for a Writing Table	**	1.0		8	0 0	
		Addition to the estimated cost	dess	244	***	316	3 0	•

#### Services of the Police Levy under Major Pughe.

From LIBUTERANT-COLONBL J. C. HAUGHTON, Political Agent and Chief Civil Officer, Bootan Dooar Field Porce, to the Secretary to the Guvernment of Bengal,—(No. 600, dated Julpigoree, the 16th May 1865.)

THE Police Levy under the Command of Major Pughe being now, I believe, about to be broken up, I beg to place upon record my very high mense of the services rendered by that Force.
2. The Police entered the Field simultaneous.

ly with the Dooar Field Force and a small detachment from it occupied the Booteah Posts at Copalguage and Domohony before the arrival of

the Troops at those places.
S. Throughout the campaign, in addition to the duties properly belonging to them, they have shared all the dangers and fatigues of the Hegular Troops.

4. What a small body of Bengal Police under Captain Macdonald did on the occasion of the first capture of Dewangiri; how they, in fact, actually captured the place prior to the appearance of the Troops is a matter of history, and has been, I believe, fully reported to the Government by Mr. Metcalfe while under my orders; the subsequent services of the Police in Assam will have been brought to notice by the Governor General's Agent.

5. The Frontier Post at Sipchoo was made over by the Military Authorities and held by the Police under Captain Gordon till, by order of Brigadier-General Dansford, it was evacuated and the stockeric destroyer.

Brigadier-General Donaford, it was evacuated and the stockade destroyed.

6. The Police, shortly lifer its capture, occupied Chamoorohee, which Post they have held continually and hold to this hour. Shortly after our acquiring the place a Constable greatly distinguished humself. He was attacked by three Booteahs while on sentry at night and mortally wounded, but he resisted the enemy successfully, drove them off, and held his post till duly relieved by the picket which came to his aid.

7. When the Booteahs appeared inforce upon the Frontier the Police at Chamoorchee, now

under the Command of Major Pughe, behaved in a manner worthy of the highest praise. Aided by a portion of the S0th Native Infantry and guns under Captain Huxham, they went forth and drove the enemy from a very strong position they had taken up in front of Chamcorolice, and Major Pughe infused so much spirit into his men, and exerted himself so zealously in rendering his position defensible, that I never had the least anxiety regarding its safety. The Officers and men with scarce any external aid stockaded the position, so that had the enemy attacked it their defeat was certain. In this the Police set an stample well worthy of imitation by the Regular Troops.

Records.

8. Subsequently the enemy having taken up and fortified for themselves a position in front of Chamoorchee, the Police joined the Force under Brigadier-General Tytler in putting them to

flight.

9. Throughout the campaign the Police have furnished escorts for provisious proceeding to the front, and have performed numerous duties here-tofore discharged by the Troops for themselves.

10. Major Pughe and the Officers and mene of the Police Levy have rendered a rvices which I trust may be bonorably remembered by the Government,

From S. C. Bayler, Esq., Junior Secretary to the Government of Bengal, to the Inspector-General of Police, Lower Provinces,—(No. 8800, dated the 2nd June 1885.)

I am directed to forward to you the accompany-ing copy of a letter, No. 500, dated the 16th ultime, from the Political Agent and Chief Civil Officer, Bootan Door Field Force, and to request that you will be so good as to convey to Major Pughe and to the Oilicers and men under his command the cordial thanks of Government for the excellent manner in which they have performed the duties entrasted to them in the Doonre.

2. I am to add that the thanks of Government have already been conveyed to Captain Macdonald and the men under his command.

# First Quarterly Inspection Report of the Eastern Bengal Railway.

Report of the Inspection of Eastern Bengal Railway, for the first Quarter of 1865, by LIEUTEWART C. H. LUIRO, R. R., Uniciting Deputy Consulting Engineer to Government of Bengal, Railway Department.

I neer Scaldah on the 19th of April by the 7-40 A. M. Train, which reached Kooshtee exactly at 13.45, the appointed hour, and I examined each Station, in all eighteen, at which the train stopped. My report is submitted under the preserved heads.

The ling is in very good order generally, but one quest for a short distance near Parodah was noticeably rough, which is explained by the embankheut having given some trouble by slipping. The fencing is in good order and so are the Station buildings generally. The goods sheds at Ramnuggur, Chogdah, &c., the roofs of which were removed by the Cyclone, are approaching completion.

The fuel used on the line is the East Indian Coul Company's coal, the quality of which is fair and the supply ample. There is no difficulty with regard to the supply of water.

111.

At Sealdah the public accommodation is ample, but it would be convenient if sents were proyided. At present there are none. Benches with backs would cost little and would answer every purpose. The sanitary arrangements here are certainly not good. There are two water-closets and four urinals. These are offensive, and the water-closets were, when I inspected them, in the most fifthy state. The water, I am told, will not flow. It might I should think, be easily made to flow; but if there is any serious difficulty about this, there is no excuse for neglecting to keep, the place plane. If water elected do not keep the place clean. If water-closets do not answer, commodes abould be substituted; there should be at least four times as many commodes as there are at present water-closets. Separate provision should also be made for the Railway employes, and from the offensive smell of even the cleanest latrines on this line, I think they should never be absolutely on this line, I think they should never be absolutely on the platform but a little to the rear of it and connected by a covered way. It should also be strictly enforced that sweepers, after the departure of each train, visit and clean the necessaries, and that these are used only for the purpose for which they are constructed, and are not made receptacles for greaze buckets, &c., as at Sentdah.

as at Senidah.

With the exception of the fourth class Stations of Dom-Dura, Sodepoor, &c., which consist simply of Ticker houses, all the intermediate Stations are on the same pattern: the accommo-Stations are on the same pattern: the accommodation for Europeans is ample generally, but there is an absence of seate. At Buggoodah, the Station for Kishnagur, a Data Bungalow is building by order of the Commissioner. The latrines consist of five urinals and two commodes, and these, as the manher of European travellers is small, are little used and are consequently in fair order. They are indecently oven to the public. Folding doors, unless shutting by means of a counterpoise, are not efficient screens, (in one instance there were no doors,) and the interior arrangements are deficient both in size and privacy; the present number of Laropean travellers is so small that this last objection is, of less importance than it might be. No separate provision is made for the Natives, which should be the case at least at one of the Stations, where the

trains stop to water.

There are notice boards at all the Stations, but these is many instances, instead of being fixed in a those is many instances. their proper places above the doors of the rooms, are leaning against the wall. This is also the case with some of the boards on which the yames of the Stations are painted, and in no instance of the Stations are painted, and the vernacular, are these announcements made in the vernacular, which they certainly ought to in. Vernacular time-tables should also be suspended outside the Station and on the platforms, and the informa-tion given regarding fares should be full and distinct. Without such tubles there are great facilities for charging higher fares than those fixed by the Railway Company. At Kooshtee the ordinary waiting accommodation is not sufficient, and here, as elsewhere, benches are required. latrines though apparently clean are very offen-sive. At a large Station like this, where passengers are frequently detained, and where there are commoder and not water-closets, the latrines should undoubtedly be detached.

The general arrangements, indeed, for European passengers who by any misfortune happen to be detained at Kooshtee are very bad and incon-venient. Three small rooms, without punkahe, which should be either ladies' or gentlemen's waiting rooms, and even then would be small, have been made over by the Railway Company to the Mauagers of the Great Eastern Hotel, who have done as little as possible to make them

decently comfortable.

The Great Eastern Hotel also provides food, which is worse than that furnished at a Dak Bungalow and is charged for at a much higher rate. This food may be eaten either in his bedroom, if the passenger is fortunate enough to secure one, or in a large hall, half of which is boarded off for the ticket clerks and half used as a refreshment room. In this there are no punkahs, and there is no cleanliness; and as the room is the only passage from the platform to the is the only passage from the platform to the Station entrance, and is also apparently resorted to as a liquor bar by all classes, it is quite public and entirely unfit for ladies. From enquiries which I have made, I find that the receipts of the Great Eastern Hotel Company do little more than cover their expenditure, and that, therefore, there is no hope of an Hotel being erected by private enterprise. I have accordingly conferred with ate enterprise. I have accordingly conferred with the Commissioner of Nuddea, who has agreed to re-commend that a Dok Bungalow be constructed at Kooshtee by Government, and the catering of this Bungalow weight, if thought desirable, be managed by private agency, Government enter-taining merely bearers, bheesties, &c.

· IV.

The discipline of the Station and Train Establishments is good. The Chards and Policemen wear uniforms. A very good arrangement obtains on this line. In addition to the English Guards two Native Guards, whose duty it is to look after the Native passengers, travel by each passenger train, and they are found to be very edicient in checking the unprecessors, enougher of company checking the unnecessary growding of carriages. I counted the passengers in several carriages and

the general number was between 40 and 50. The greatest number I saw in any carriage was 53. The passengers were by no means crowded, and the proof of this is that the greater number were lying dawn. From short I saw I should say the lying down. From what I saw I should say that carriages without seats are the most convenient and the most comfortable for Natives. If seats are added, passengers will not be able to lie down, and in sitting down after their own fashion seats are not more comfortable for them than a floor.

Specific complaints there are none.

The late trains Roturn for this quarter has not yet been received, so that the information on this point cannot, I regret to say, be furnished with this report.

#### VIII

The condition of the rolling-stock is now under the consideration of Government, and a large addition is contemplated, as what exists is quite insufficient for the traffic. The new wagons will, insufficient for the traffic. The new wagons will, by a small increase to their internal dimensions, be capable of carrying twice as much jute, (one of the principal articles of traffic,) as the old wagons, which being built on the English pattern, without any reference to the size and shape of the bundles in which jute is packed, are very bad accommizers of space. Of eight lines of rails in the Station, all of which ought to be devoted to passenger traffic, it has been found necessary to give up six entirely to goods; there is, in con-sequence, only-one platform for both the arrival and departure of passengers, and spare carriages, which ought to be under cover, are compelled to be left out in the open. An extension of the goods sheds, which has been recommended to the Government of India for sanction, will remove these difficulties. The necessity of these extensions affords ground for a very hopeful view of the prospects of this line, and the more so as the difficulties arise, not from any temporary or spasmodic cause, but from the legitimate development of the Eastern Bengal trade.

#### VIII.

The maximum detention of goods at Knoshtoe appears to be about 40 hours, and at Scaldah about the same time. At the intermediate Stations the traffic, which is chiefly of sugar, is very small, and there is no detention. Indood, nearly all the traffic is through from Kooshtee to Calcutta, which makes the working of it exceedingly convenient.

1X.

The drief articles of traffic are jute, orther in drams or gunny bigs, and grain. The amount of goods arriving at Edoshtee daily varies from 1,580 to 2,000 mhands.

There was only one swellent on the Eastern Bengal Railway during the quarter. A drouben Private of the East Ludian Regiment was resting on the side of the rolls and was killed by the blow of a passing Engine.

I have the honor to acknowledge receipt of letter No. 653G, dated 13th instart, forwarding copies of Report of the Respection of the Eastern Bengal Railway by the Officianing Deputy Consulting Engineer, and to request that you will make it known to the Ron'ble Licuterant Governor that his requests with reference of the eanitary condition of the latrines on this Railway have already been complied with. .

From observations that I have repeatedly made, and from the fact of the late Sanitary Commission and other Government Officers when inspecting the line not having complained, I have egery reason to hope the Officiating Doputy Consulting Engineer inspected the latrines under exceptional

circumstances. I quite concur in all the Officiating Deputy Consulting Engineer says against such places being situated on the platforms, for no amount of cleanliness and care will provent their being offensive in this climate, and arrangements will be made to remove them as soowas possible; but I cannot help observing that the Government Officers should share the blame for their being placed in such a position, as they had much more experience of the effect of such places in this climate than the Company's Engineers

With regard to the concluding portion of paragraph 3, it was resolved when the Sanitary Commission inspected the line that a latring for Natives should be built at Buggoolab, and the work is in hand.

The suggestion of the Officiating Deputy Consulting Engineer that the names of the Stations should be painted in the vermentar has been anticipated, the notice boards at Stations should most certainly have been re-fixed since the cycline, but some allowance must be made, as the Engineering Department experienced difficulty in getting sufficient workmen for more necessary works.

I admit, the arrangements of the Great Eastern Hotel Company are by no means so perfect as I could wish, but they are as perfect & an experimental Hotel in a building not adapted to the purpose can be expected to be.

I shall be glad to hear that the Government determine to build a Dok Bungalow at Koos) tea; as suggested by the Officiating Deputy Consulting Engineer, for there can be no doubt the acceptmodation is required, and it is more within the province of the Government than the Railway Company to provide it.

I cannot but think the Offi invity Deputy. Consulting Engineer expected more country and luxury at Knockten than most other travellers; and more than the Great-Eastern II Bi Company can afford to provide for easted passengers, for this Branch Hotel has now been apen apwards of two years, and I have out? received one complaint, and that was that it closed too early in the evening.

The Officiating Populy Consulting Engineer is very far out in his estimate of the quantity of goods that daily arrive at Konditar; it varies from v./ to 15,000 martide, and during the past three months has energed 1568 maunification.

st Quarterly Inspection Report of fully brought to the notice of Government by the Calcutta and South-Eastern Consulting Engineer so recently, that reference Railway.

Report of the Inspection of the C. and S. E. Railway for the first Quarter of 1885 by LIEUT. C. H. LUARD, E. R., Officialing Deputy Consulting Engineer to Government of Bengal, Railway Department.

I Mape the inspection of this line on the 2nd of May. The report is submitted under the prescribed heads.

The maintenance of the line and the general condition of the road, leneing, and Station buildings is good. At all the Stations, with the execution apparently of Gordon, there are boards with the name of the place in Roman, Bengalee, and Persian characters. Time-tables, as a rule. are placed in a conspicuous place in each Station, but the information is only in English. It should also be given in the vernaenlar, as the passengers are almost entirely Natives.

Tio quality of the fuel is fair, and the supply of water sufficient.

III.

"The Station at Sealdah is temporary, and as such its arrangements are fairly good. with backs placed upon the platform would be a consenience. At the intermediate Station there is no accommodation, none being necessary. At Canning seats are required. Special attention by means of a significant is drawn to a ladies' waiting romant this Station. This has none of the comforts or conveniences which it should have, and although the Canning Station is temporary, and Railway Authorities think a ladies' waiting room necessary, they should make it more comfortable than it is. The latrices at this Station though telerably clean are not good. The goods shed which has lately been finished has as yet no doors, and the goods are consequently liable to be steen.

The discipline of the Station and establishments appears good. It would be better if the Counts were provided with uniform, so as to be at once distinguished by passengers.

Consulting Engineer so recently, that reference to it here is unnecessary.

VIII.

At Canning goods have, for want of sufficient stock, been detained two days, which is the max-

IX.

The traffic is, it may be said, entirely through. The monthly average from Canning has been about 4,800 maunds, and to Canning about \$0,000 maunds. This last being almost entirely rice for shipment, whilst the up-traffic to Culcutta was of a varied character, consisting of rice, hay, jute. &c.

There have been no accidents during the aunrter.

First Quarterly Inspection Report of the Nulhatee and Azimgunge Line, Indian Branch Railway Co.

Inspection Report of the Indian Branch Railway Line from Nulhates to Azimguage by Major J. Havenden, R. c. for the first quarter of 1865,—(dated Calcutta, the 6th

I inspected the line between Nulhatee and Azimgunge on the 7th April 1865 and submit my report under the usual heads.

State of the time and fenering .- The line and permanent way are in excellent order. The Company are bound by their agreement to keep up the cart road which runs alongside their line. This requires looking to, for nothing appears to have been done towards dressing the surface of this road since I formally made it over to the Company in the month of August 1864.

good deal of work has been done in fencing the line since I made it over, but without much real benefit to the public. It was pointed out clearly to the Company that if was considered necessary that the fence on the north side of the line should be put up at once, so as to separate the line of Railyay from the eart road. The wishes of Government have not been attended to There are no specific complaints.

Wishes of Government have not been attended to in the least; the fencing on the south side of the line, where it is comparatively useless, has been completed in a fairly efficient manner, while that on the north side has not been touched. The liestent Engineer informed my that he had the a hole of the materials for this fence ready, and that no only required the effect of the Agent to commence putting it up. The completion of this fence should be insisted in before any portion of the sufficiency for earrying the truffic has been their subsidy is paid.

supply of water is abundant.

(3.) State of the Stations.—There is no Station, at Nulliatee and passengers make use of the East Indian Railway Station. The Stations at Bokra and Azimgunge are mere corrugated iron sheds for each with small offices for the telescopy and for goods, with small offices for the telegraph and ticket clerks partitioned off in the corners.

(1) Discipline of Station and Troin Establish-monts.—These are very small, but their duties appear to be carried on quietly and satisfactorily. The Guard is in uniform.

(5.) Specific complaints. I have received no

specific complaint.
(6.) Punctual working of Trains.—The distance run is small and the trains are punctual.
(7.) Condition of the rolling-stock.—The passenger carriages are of great length and open throughout their length, somewhat like the

(2.) Supply of fuel and water.—Owing to the peculina construction of the engines on the line nothing but English coal can be used. There is no diliculty in obtaining this at Nulinatee. The supply of water is abundant.

American cars. They are not unconfortable, but are deficient in roof voilibition. Each carriage runs on six wheels. They are somewhat figure in construction, but appear to answer very well-supply of water is abundant.

for a low rate of speed.

The goods wagons are of various patterns, having been constructed at various times as experiments with a view of ascertaining how the requisite strength and capacity could be obtained with the smallest amount of dead weight and at the least cost. There is a corrugated iron wagon

on six wheels which appears to be very good.

(B.) Maximum detention of goods at the principal Stations.—I am given to understand that goods are never detained beyond a few hours.

(b.) Amount of goods carried, shering chief staples.—I regret to state that I have no information whatever to the countill or particle of the staples.

tion whatever as to the quantity or nature of the goods cerried on this line.

(10.) Accidents.—No accident has occurred on the Nulhatee and Azimgunge line during the quarter.



### SUPPLEMENT TO

# The Calcutta Gazette.

WEDNESDAY, JUNE 14, 1865.

### OFFICIAL PAPERS.

A surrement to the Courses will henceforward be published, containing such Official Papers and Information as the Course at the Course of Hengal may deem to be of interest to the Public, and such as may asefully be made known.

Non-Subscribers to the Garette may receive the Saurement separately on a payment of six limposs per annum if delivered not alcording or twelve Rupecs of seal by Post.

No Origins Orders or Nationalisms, the publication of which is the Gazzett is required by Low, or which it has been ensumer, to publish in the Gazzett, will be included in the Suverieuer. For each Orders and Notifications the body of the Gazette must be looked to as heretofore.

#### Report on the State of the Salt Market during the Fourth Quarter of 1864-65.

From T. Serves Lane, Esq., Junior Secretary to the Board of Revenue, Lower Provinces, to the Secretary to the Government of Bengal—(No. 606, dated 26th May 1865.)

I am directed by the Board of Revenue to submit the following Report on the state of the Salt market during the fourth quarter of 1864-65.

2. The quantity of Government Salt sold

February 1868... 8,470 March 10,745 April 10,745 March 10,745 April 10,745 March 10

about mands 28,332 less than the monthly average of the corresponding quarter of 1863-64. This further falling off in the sales must be again averabed to the continued decrease in the price of the Liverpool Salt, the clearances of which during the quarter under ceview amounted to maunds

12,08,786 against manude 8,88,008 in the corresponding quarter of 1863-64.

3. The sales of Government Salt from the Ghoosry Golahs amounted to maunds 1,450 against maunds 1,800 in the previous quarter, and maunds 2,125 in the fourth quarter of 1803-64. The cales at Tumlook aggregated maunds 11,635 against maunds 37,160 in the last quarter; white these in Hidgelies amounted to maunds 16,910 against maunds 13,161 in the preceding quarter, and maunds 16,400 in the corresponding quarter of 1863-64.

4. In the third quarter of 1864-65 the sales in those parts of Bullocah which are within chowkey limits, and in Chittagong, appear to have amounted to mounds 11,927 and mannds 19,879 respectively, being about maunds 660 and maunds 2,000 in excess of the sales in the corresponding period of the previous year, and about maunds 700 and maunds 1,000 less than the sales in the preceding quarter.

5. The sales of Excise Salt during the quarter under review aggregated maunds 5,350 against maunds 2,290 in the previous quarter, and maunds 13,045 in the fourth quarter of 1863-64.

6. The quantities of Salt which have been dispatched into the interior of the country vid the border chawkeys of Bollikhai up the Hooghly and Geraghaut en route to the Goerni, and by the East Indian and Uastern Bengal Rollways, are shown in the following Comparative Statement:—

Period	Quantity which passed Balli- khul.	Quantity which passed Gora- ghout.	Quantity dis- patched by East Indian Railway.	Guantity dis- patched by the Eastern Ben- gal Ruilway.
	Maunds.	Mounds.	Maurds.	Maunds.
Fourth Quarter of 1882-63	1,52,445	3,24,799	1,08,442	
Ditta , 1863-06	2,15,954	3,30,141	1,21,508	3,758
Ditto , 1861.65	1,67,458	•	3,48,610	964

7. The importations and clearances of Sea-imported Salt during the guarter are shown comparatively in the following Statement:---

• Description of Salt.		UARTER OF	Fourth Q 1863	UARTER OF 5-64.	FOURTH QUARTER OF 1864-65.		
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.	
	Maunds,	Maunda.	Maunds.	Maunds.	Maunds.	Maunds,	
Liverpool Pungah	17,31,832	11,83,983	16,26,528	6,88,008	10,12,041	12,08,686	
Foreign Kurkutek	: 19,142	.61,431	1,19,240	1,00,216	23,597	78,206	
India Ditto	1,86,485	2,16,022	1,37,975	1,94,354	1,41,654	1,78,620	
Total	18,87,409	14,61,486	18,88,743	11,87,578	11,77,822	14,55,617	

Large clearances were effected in the last days of March in anticipation of a rise in duty.

8. The following are the details of the importations and clearances of Indian Kurkutch given above :-

Expor	ting Port.		1862	-68.	1863	-64.	1864-65 <sub>6</sub>		
378,002	ang rore.		Imported.	Cleared.	Imported,	Cleared.	Imported.	Cleared.	
			Mauuds.	Maunds.	Mannds.	Maunds.	Maunds.	Maunds	
lombay Curraches			1,06,256	1,50,585 83,526	1,06,564 23,411	1,20,884	1,86,684	1,20,807 13,494	
fadras -	***	***	80,179	31,961	111	22,450	5,000	10120	
lanore lovelongs	114	100	- 4)4	444	444	5,400   4,876		4	
ciode	***	111	111	49.	8,000	8,074	., .,	89,82	
	Total	444	1,86,435	2,16,022	1,37,905	1,94,854	1,41,684	1,78,620	

9. The shipments of Liverpool Salt appear from published market reports to have been in

February ... ... ... ... ... ... ... 4,593
March ... ... ... 1,157

This decline in the shipments is probably owing to the fall in the price of this Salt at the close of 1864, and no material increase can be anticipated under the present position of the Calcutta market.

- 10. The price of Liverpool Salt, which, at the close of last January, stood at Rupces 46, fell gradually to Rupces 87 towards the end of February, when it again commenced rising until it reached Rupces 50 towards the end of March, This appears to have been the highest point that prices have reached since the middle of November last. They have again taken a dornward tendency and stood at Rupces 38 only at the close of the quarter.
- 11. Madres and Bomboy Kurkutch have both gradually declined in price from Rupees 40 and Rupees 30 respectively in the beginning of

February, to Rupees 37 and Rupees 22 at the end of the quarter. Kurkutch from Madrat is being imported and bonded at Balasote, but no importations have as yet been reported from Chittagong, where the Government clock is now less than a year's local consumption.

12. The total quantity of Sait available on private trade at the several Madras Depote on the first day of each of the three months of the quarter under consideration, and of the corresponding quarter of the two previous years, is exhibited below:—

-				100	_
	Date.		1862-63.	1.808-64,	1864-05.
-		* .	<u> </u>	-	
lst	February	***	Maunds. 11,64 165	3 aunds. 5,82,75b	Maunds, 3,55,388
	March April		12,55,856 13,40,851	4,78,547	7,25,326
			1 + 1		

18. The approaching July sale will dispose of all the Depôt Stocks.





### SUPPLEMENT

# Calcutta Gazette.

WEDNESDAY, JUNE 21, 1865.

#### OFFICIAL PAPERS.

A Surrangent to the Gazeven will benceformered be published, containing such Official Papers and Information as the Government of Rengel may deem to be of interest to the Public, and such as may neefully be made known.

Non-Subscriber to the Gazeven may receive the Surrangent separately on a payment of six Rupess per annum of delivered in Calcula, or twelve Rupess of sent by Post.

No Official Orders or Notifications, the publication of which in the Garatte is required by Law, or which it has been customary to publish in the Garatte, well be included in the Suprement. For such Orders and Notifications the body of the Garatte must be looked to as heretofore.

#### Report on the State of the Salt Market during the Fourth Quarter of 1864-65.

Prova T. B. Lane, Esq., Junior Secretary to the Board of Revenue, Lower Provinces, to the Secretary to the Government of Bengal,—(No. 637, dated the 9th June 1865.)

Is continuation of my letter No. 605, date 26th ultimo, I am directed to report that the quantity of Salt which passed the Border Chewkey of A. GROTE, Esq. Goraghant vn route to the Gorai during the quarter ending 30th April last was maunds 5,08,523.

#### Report of the Cultivation of Cinchonse at Darjeeling during the Month of April 1865.

Prem T. Ampilison, Mad., M. D., Superintendent of the Betangad Guidens, and in charge of Cinchona Cultiva. tion in Bengal, to S. C. BAYLEY, Esq., Junior Secretary to the Government of Bengal, -(No. 1, dated Darjeeling, the 22mm May 1508.)

I have the honor to submit the following Report on the cultivation of Cinchonn at Darjeeling during the month of April 1865:-

# Report for the Month of April 1865.

The weather during the first forthight of April differed little from the weather that prevailed during March, but loggy and cloudy days were commoner. commoner.

With the exception of a slight thunder storm on the 13th no rain fell until the 14th. After that date rain fell on fourteen days to the amount of 11.18 inches, or the total rainfall for the month. The latter part of the month of April was therefore very moist and warm and highly forwardle to growth. favorable to growth.

At the fourth plantation the mean maximum temperature during the month was 74° 5, the mean minimum 60°, and the monthly mean temperature 68° 5.

At the fifth and lowest plantation the mean maximum temperature was 85°. 4, the mean minimum 62°3, and the monthly mean 78°0. figures indicate a great increase in the minimum temperature as compared with last month, while the mean maximum temperature at the fourth plantation has fallen slightly below that of March. These changes in the relation of the two extreme temperatures have resulted in a great increase of the mean temperature of the month.

9. The growth of the plants has everywhere been most satisfactory, and especially at the lowest plantation the condition of the plants of all species could hardly be surpassed.

The plants are covered with luxuriant foliage and the largest are sending out vigorous branches from the axils of the three or four upper pairs of

3. The total number of plants and partially rooted cuttings of all species was 49,486 on the 30th April. The number permanently planted out was 3,256. The number of plants added during the month to the number to be retained as stock plants was 3,220; all of these belonging to Cinchona Officinalis were planted in beds in the onen air. the open air.

The increase by outtings during April far exceeds the number obtained. Since the commencement of the experiment 12,104 cuttings of all species were made. None of these are buds, only vigorous shoots were used, as I consider it prefertile to have a healthy stock than a large monthly increase of cuttings taken from over-pruned plants. The 7214 cuttings made during March have all rooted and are ready to be potted off as soon as the Establishment have completed the more urgent work of preparing ground for the rapidly increasing stock of plants.

4. In the Report for the month of February I stated that an experiment had been made to ascertain the difference in the number of cuttings obtained from plants growing under glass and those growing in the soil and fully exposed. After two months it has been found that the plants under glass yield a larger number of cuttings than plants entirely unprotected do. The proportion is three to five. No general reliable results can be obtained until the experiment has been carried on for a year; during the rains

the plants in the open air will grow most luxuriantly and will give a much larger proper tion of cuttings than they have flow doring the dry season.

5. The operations at Rungbee during April, in addition to the making of cuttings and the planting in the open air beds of 9,820 plants, consists of planting Cinchona Physiciana in permanent plantations, making during in nurseries and plantations and repairing the foods, all of which were much damaged during the heavy and sudden falls of rain occurring additing the latter part of the month.

6. A new road giving access to the southern slope of the spur has also been finished during the month. The nursery for the distribution of Cinchona plants has been commenced during the month by 1,000 cuttings of Cinchona Officinalis having been placed in it.

Tables showing the number, distribution, and growth of Ciuchoua plants in the Government plantation at Darjeeling on the 1st May 1865:

Number and Distribution of Cinchona Plants in the Government Plantation at Darjeeling 1st May 1865.

				24	- 61			
	NAME OF SPECIES OF CINCHONA.	Number in permanent Plentation.	Number of Stock Plants for propagation.	Number of Seedlings or rooted Cuttings in Nur- sery beds for permanent Plantation.	Number of rooted Cut- tings in cutting beds.	Number of Cuttings much during the month.	Total Number of Plants, Cattings, and Seed-	BEWARKS.
C,	Succirubra	. 889	4,391	None	2,250	5,820	10,850	
C.	Calissya	None	23	· · · · ·	14	84	61	9,00
C.	Microntha		929	*****	- 850	200	1,554	
C.	Officinalie, dueluding	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	18,689		4,600	9000	0 0 C	
C	Pahadiana W . 1	0.100	None	0.000	None	8,000c.	31,989	
	de sire	, 10°	NOHO	2,980	14000	INONE	5,008	
	Total	8,258	23,982	2,930	7,214	12,104	49,486	

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Superintendent, Bosancas Gordens, and in churge of Cimchana Catteration in Bengal.

The lat-May 1865. . }

#### Repert of the Effects of the Cyclone of the 5th October on the Botanical Gardens.

\*From T. Andreson, Esq. M. D., Superintendent, Royal Hotanic Gardens, to the Secretary to the Government of Bengal,—(No. 70, dated the 1st May 1865.)

I nave the honor to submit a Report of the damages sustained by the Botanical Gardens in the Cyclone of the 5th October 1864. The number of trees uprooted is so great that the labour of escentaining the number of specimens of the different species destroyed was not com-pleted until the first week of March. This list had then to be arranged systematically, and the antiquated nomeuclature still used by the European and Native Gardeners had to be altered for that which I have dopted in the recently published Catalogue of plants cultivated in the garden. Without the aid derived from the Catalogue this Report could not have been submitted in its

present shape under a your.

2. The history and general character of the Cyclono as it occurred at Calcutta have been repeatedly narrated and are so well known to every one that no description is required here. As experienced in the Botanical Gardens, the Cyclone differed in being somewhat more violent than in Calcutta, and the influence of the stormwave extended more inland. The greater fury of the storm in the Botanical Garden is accounted for by the garden being nearer the centre of the Cyclone than Calcutta, but principally by the open surface of the river, across which the gale at its height blew diagonally, and thus strock the garden with a force unbroken for the space of a mile by any obstacle whatever. Few trees fell before 11 o'clock on the 5th October, and almost none efter 4.30 r. M. At 4 o'clock the great specimen of Adansonia digitata, the Buobab tree of Africa, was apposted and fell with a crash that caused vibrations in the earth which were felt at a distance of some hundred yards. This tree, which had withstood the greatest force of the gale, seems to have at last given way from its roots having become loosened in the soil by the storm-wave, whose waters rose to a height of four feet on the trunk of the tree. Three gigantic specimens of Casuarina equisitifolia, the oldest of the species in the garden, and none of them less than 150 feet in height, fell comparatively early in the storm; one of them was seen in the act of falling about 11 A. M. Many trees, but especially Casuarina equisitifalia, and young specimens of teak, were not uprooted, but their stems were broken across fifteen or twenty feet above the ground, while every branch was wrenched off, and they are now nothing but bare poles without a leaf. The greatest damage to the garden was caused by the storm-wave, which broke over the low embankment protecting the garden towards the river stell the lower parts. This wave laid the greater part of the garden under water, in some places to a depth of sixth severafeet. By it the river bank was injerted, and in some places, where the soil is sandy, much earth was washed into the river and lost. Three large breaches were formed in the river bank, two were traused by shins being blown into the garden with great violence, while the storm-wave was at its highest point. The earth, hosened by the weight of the crossels, was washed away, and at the distance of twenty feet from the western side of my house a gap fifty feet long by twenty-seren wide and cabout The greatest damage to the garden was caused by

ten feet deep was formed. A darger and design breach was made by a French vessel being driver into the bank opposite the seed-house. At the point where the khal, which divides the garden near its centre, enters the Hooghly, the sluice-gate was carried away along with the efficient, forming a gap about eightly feet in width, through which the tide flowed into the graden and the rice fields to the north. This has caused a large deposit of silt in the kbal. The storm-wave washed over the garden like a torrent sweeping away the gravel (broken brick or knooak consolidated by soorkee) from all the roads at a right augle to its course and strewing it over the lawn and on the flower beds. Nearly two miles of road baye been much damaged, while the road on the river embankment, which extends from the great khal to Bishop's College, has been almost entirely destroyed. This wave also broke into the long chain of tanka whose surplus waters are drained into the river about 200 yards below my dwelling-house. The sluice-gate was broken by the pressure of the water, whose sudden rise carried away the parapets of the second bridge over the nulla connecting two of the tanks, and further on 'leglroyed an old wooden bridge, lifting it off its masonry supports, which were thrown down. This plevastating wave overthrew almost every shrub and small tree that had withstood the fury of the wind, loosened and swept away the soil about the roots of large trees, and thus caused many of them to fall even after the great force of the storm was exhausted. The granten was exhausted, with was exhausted. The garden was covered with straw brought up by the tide and storm-wave from the villages below: many hundred cart-loads of straw were collected and Lurned some weeks after the Cyclone. Timber and rubbish of all kinds were scattered every where, and even a portion of the helm of a ship was carried a quarter of a mile into the garden, and was found at the base of the large tree of Guatina arbares. opposite the dwelling-house of the Gardener of the Agri-Horticultural Society. Near this a log of mahogany four feet in diameter and fifteen feet long was overturned by the storm wave, and near the centre of the garden another log two feet thick and twenty feet long was carried some

feet thick and twenty feet long was carried some distance by the recoding wave.

3. The above is a sketch of the principal features of the Cyclone as it occurred in this garden, but no description, however accurate or minute, could convey an idea of the devastation committed in the garden by this storm. The scene in the garden saw mining after the Cyclone was most dismal. A thousand trees, many of them gigantic specimens and the pride of the garden, were prostrated, besides innumerable shrules of which no count could be kept anoting had been spared, and those trees that had not fallen were more or less stript of their branches; some recorded as standing were more bare poles without a branch. Note a vestige of branches; some recorded as standing were mere bare poles without a branch. Note a vestige of a leaf, flower, or fruit remained in the garden. The lawn roads and the tasks were blocked up by trees and fallen branches. All the buildings suffered more or less damage, and every one not built of bricks and mortar was the wn dawn.

4. The buildings in the garden suffered as follows:

follows : -

follows:—

Superintender De Dwelling-house

This house from its exposed position suffered much damage. All the shn-shades and five of the lurge venetion screens in the verandals of the middle story were blown down, about twenty door

of their hinges, and most of the seventy years, and the pride and ornament of this part of glass in the doors of the south and garden. Had the entire collection of plants in past sides of the house were broken. The water pots been lost, the greater part could have been of the storm-wave flooded the lower rooms of the re-placed in a comparatively short time, whereas of the storm-wave flooded the lower rooms of the re-placed in a comparatively short time, whereas of the storm-wave flooded the lower rooms of the house to a depth of five inches, but no damage house to a depth of the lines, but no damage was enstained except the rotting of mats by the deposit of all which took place. The seed-house, being well sheltered by trees, received little damage; the sand platter was, of course, stript off the outer walls and a few panes of glass were broken. The hoors of this building being raised four feet above the ground were not flooded,

5. The Head European Gardener's house was the only other dwelling-house that received serious damage. The second story of this house, composed of very strong mat walls supported on a parapet of masonry with brick pillars, was completely blown away. The property in the room was buried amid the ruins. A quantity of valuable Memoranda and the records of the last fineen years of the Department under the Head Gardener were kept in this room. The greater part of these were destroyed from being buried under the thatched roof, and some were scattered over the garden and lost. The two other dwelling-houses suffered very little damage beyond the loss of one or two doors and large patches of sand plaster from the outer walls. The Visitors' pavilion, the extensive thatched building used as a conservatory for the Orchidaceous and other valueble plants and the raising of seeds, the Coolies' lines, and indeed all erections built of any other material than bricks and mortar were levelled with the ground. Much loss was sustained by the destruction of the thatched consertained by the destruction of the thatched conservatory; all the plants it sheltered were buried under a mass of gress, or were broken by the paste and heavy wooden frame-work of the building. Many of the most delicate species of Orchidacec were entirely lost, and the number of specimens of all species was so much reduced that new not half the fine collection of this family of plants remains. With a few exceptions, all the young plants raised from seed sown during the year were also killed by the falling of this shed.

The nurseries of the stronger class of plants there were about 14,000 plants in pots when the Cyclone occurred; these were buried under the rains of the mahogany and mango groves, where the plants were kept for the sake of shade. I am glad to be able to report that nearly all these plants have been saved, although they had to be left ton days noder branches and trees.

7. All the plants of Vanilla growing on the stems of mahogany trees were killed either by the falling of the trees to which they were attached, now remains in the gurden, and drenga succhari-or by the vice see of the wind. In the operations of free, most of the trees of which have been blown continue ringing, and layering considerable loss, but of the perpendicular, although few of them both of time and of a valuable stock of young have been uprooted. The great destruction of plants resolved from the Cyclone. The only young exogens by the Cyclone, while endogenous species thanks were made by these processes during the escaped, produced a peculiar effect on the scenery year that escaped was not clerably complete set of about Calcutta. The country as seen from the profession of the product of the country as seen from the grafts of the variaties of mange cultivated in the garden; these had been removed from the trees a lew days before the Cyclone. In no others had the process been completed, and accordingly all flaballiformies and bambuos.

even half a century will not be sufficient to restore the specimens of trees destroyed by the storm. Many of them exist no where in cultivation except in this garden, and some of them are known to Botanists only by dried specimous and descriptions of those trees now lost. Many of the most picturesque parts of the garden resulting from the grouping of trees, or from well developed single apacimens, no longer exist. In the teak avenue along the road from Kyd's Monument to the large In the teak avenue bridge over the khal only two mutilated specimens The trees in this avenue were sixty-nine remain. years old. Out of sixty-seven mahagany trees thirty-one have been blown down, two of which were sent to this garden by the Court of Directors of the East India Company in 1796. These two trees had attained a circumference of thirty feet six inches and had produced seed for the last two years. The mahogany grove, consisting of trees forty-five years old, is destroyed. The Casuarina avenue planted by Dr. Wallich has suffered severely. Only four trees in it are standing, and these are much injured. Three of the originally introduced specimens of this species, and which were the parents of nearly all the Cascarinas near Calcutta, were blown down. The magnificent specimen of Adansonia digitata, whose diameter is twelve feet, fell towards the end of the storm after the storm-wave had passed over the garden. All the trees of Amherstia nobilis have been partially uprocted; they are supported merely by their branches, and all of them must be removed after roung plants have been obtained from them by layering. The great Banyan received considerable damage, but fortunately on the north side, where the loss of the branches does not in the least spoil the contour of the tree. The Pinetam, containing many fine specimens of Arancaria, suffered much from the storm. Of about twentyfive specimens of Araucaria not one has been left. with the main stem entire; in most of the trees nearly a third of the stem and branches remain. Among Conferae the destruction of all the trees of Pinus longifolia deserves notice; also of a very large specimen of Dammara orientalis introduced from Amboina in 1798.

Among all this destruction I am glad to be able to report that Cycadeas and pulms, and indeed Endogenie generally, have escaped with Only two species of palme have little injury. suffered severely, one is Areca catechu, the com-mon betelmit palm, of which hardly a specimen have been uprooted. The great destruction of exogens by the Cyclone, while endogenous species escaped, produced a peculiar effect on the scenery about Calentra. The country, as seen from the roof of my dwelling house, a height of 80 feet, appeared to be covered with three species of pulms (Cocos nucifera, Phonia sylvestris, Borassus flaballiformis) and bambuos.

8. All the damage to buildings, to rare plants suggest themselves as worthy of notice but they are too unmerous to be included in a general report, and to the hursery stock is of slight are too unmerous to be included in a general report, and besides my engagements do not allow measurements of trees, many of them the growth of time to enter on them. Some of the effects of

the Cyclone on the flowering and fruiting of trees for some months after the storm must not, however, be spassed over. The destruction of the foliage of the trees and shrubs at an unnatural period, and indeed at the time when the trees had seased to grow and were maturing the woody growth of the rainy season, has had a strange influence on some species. The most general effect has been the absence of flowers in spring and departures from the usual course of shedding of leaves. Some of the most striking comes are :mango trees at the usual period in February and March. Up to this date (15th April) I have not Butea frondosa, seen a mango flower this year. of which four trees remain in the garden, has retained the leaves it produced in October after the gale and has not flowered at all. The normal condition of this tree is to remain leafless during winter and in March to flower profusely, after which the leaves appear. The same condition has which the leaves appear. The same condition has occurred in Butea parriflora, B. superba; and B. voigtii. Bankinia variegata follows the same course as the species of Butea. This year, although it produced a second crop of leaves in October, unlike Butea, it lost those leaves in December, and the only two trees of it left standing flowered most abundantly at the usual time in March before the leaves appeared. Terminatia Catappa, and all deciduous species of Picus, including Ficus indica and venosa, re-produced their leaves shortly after the Cyclone, losing this foliage as usual in the last fortnight of March and immediately acquiring their full leaf. Bongainvillea aprecubilis, one of the most gorgeous sights of this garden in the boginning of March, has not flowered; one plant only produced about a dozen nowers. The half prostruct trees of Amhistia nobilis produced altogether only one abortive spike with sickly flowers, while two young plants that flowered freely last year, and are still stand-ing almost uninjured, have shewn up flowers. Jonesia osoca, which yearly vies in splendour with Amherstia nobilis, produced only a few ill-shaped flowers, although some of the trees are apparently uninjured. A species of Ulmus (Uerosa?) a tree about 60 feet high, has for the lest three years flowered regularly in the middle of March before the leaf buds; this year it has remained partially in leaf all winter and has produced only three or four flowers. The flowering or fruiting of trees for the first time in India shortly after the Cyclone may be accounted for by changes resulting from the sudden check given to growth, and specially to the ripening of wood in October. I do not, however, attach much importance to the two cases of this kind that occur to me; one is the flowering of Dion edals about two months after the gale, and of an old specimen of Guitavia, augusta, which has been twenty years in the garden without flowering. It was partially up-rooted and lay at an argle of nearly 45 degrees and if this position in Pebruary it produced a large number of flowers, three of which have been followed by well formed fruits. Other similar cases may occur as the tyear advances.

11. Some trees have been killed by the mere force of the wind, or by the violent strain they have sustained; the pressure during the height of the storm is said to have been 120 lbs. on the square foot. Some species, especially of Dipterocarpean, Guttifere, the genera Dalbergia, Pterocarpus, Acadia, Arancaria, and Dammara have their after the gule, and of an old specimen of, Gustavia,

pus, Acacia, Arancaria, and Dammara have their

stem covered with the caudations of main or go, which have oozed through a the bark on the upward flow of the say in March. on the

12. There are very few species of trees in the garden of which specimens have not been thrown down; the only species that seem to have entirely escaped, and of which the specimens, with few exceptions, are unique, are

Diptercearpue alatus. Cratiova Roxburghii. Flacourtia cataphracta. Hydnocarpus inebriens. Gynocardia odorata. Eriodendron orientale. Sterculia ornata. - comosa - angustifolia. Visenia volutina. Hopea faginea. Acer oblongum. Ailanthus excelsus. Erythrins indica. Pterocarpus indicus. - dalbergeoides Poinciana regia. Cassia nodosa. Pithecolobium bigeminum. Terminalia angustifolia. citring. berryi. travancorensis. tomentosa. paniculata. Nauclea parviflora. cordifolia. Mimusops hexandra. · indica. Diospyros enpota. - embryoptria Spathodea Rheedii. adenophylla. Vitex saligna. Camphora officinarum. Beilschmiedia Roximeghiana. Cryptocarya floribunda.

13. The greater number of species of Figure have also escaped. The powerful aerial roots of many of this species enable these trees to resist the most violent storms.

- 14. An endeavor was made to accertain the number of specimens of trees that remain in the garden, but the time it was found that the work would occupy was larger than could be spared for more important investigations, accordingly, after examining about one-lifth of the extent of the garden, the work had to be abouttood.
- 15. It is apparent from this imperfect enquiry that at least one-half of the trees have been blown down, while pearly all that are standing are very much shattered.
- 16. In the following extensive list of trees uprocted by the Cybine no account is taken of innumerable small trees and thrubs, nor of injuries to trees that may have been deft standing; all such have been excluded from the list, which thus contains only species that have been thrown down and destroyed. The list contains 1,010 specimens distributed among 364 species, which is nearly the entire number of arbonesecant species in the garden. in the garden.

Lief of Trees uprooted in the Royal Botanical Garden, Calcutta, in the Oyclong of 5th October 1864.

Number of Species.			Number of Speci- mens uprocted.	
SJoan	Name of Species.		umber of Spec mens uproofed	REMARKS.
ngpi			utab	
Z			Z	
1	Dilleniacea,			
9	Dillenia scabrella		1	Grafted on Dillenia seabrella.
. 3	pentagyna	44	i	
. 4	, speciosa	-	- 1 .	
	Magnoliacent.			Blanded by Dr. Benkarah
. · · · · · · · · · · · · · · · · · · ·	Magnolia sphenocarpa		1	Planted by Dr. Roxburgh.
0	Michelia champaca	7 17		
E E	*Alphonses ventricosa	-	1	Unique, introduced in 1797.
- 8	Scegopetalum longiflorum		1	
h 8	Guatteria fasciculata		- 1	
70	Canallacess.		,	
10	Birinea.	4	-	_
11	Cochlospermum orinocenso		4	100 00
12	Bixa orellana .		2	
13	Flacourtia ferox	Ť.	1	The only evicinal engineer of
14	,, inermis	•	1	The only original specimen of Dr. Rexburgh's planting left.
15	rotundifolia		1	Unique,
*	Tamariseinea.		1	
16	Tamarix indica	-	1	
+17	Hypericine a.		a	
-11	Gutifero.		3	4
. 18	Calophyllum inophyllum	-	Б	
- 14	Mammea siamonais	-	1	
* *20 21			8	
22			3	No uninjured specimen left.
23			ĭ	
24	eowa .	-	8	
25		-	1	One uninjured specimen left.
20	Dipterocorpea.  Dipterocorpea lavis	1	1	Unique, introduced before 1791.
27			2	One specimen remaining.
28		-	ı ï	
	Malvaces.			
9. 9.0 9.0			1	
30			3	
39			i	
1 38	Theapesia populuea	-	- 1	
34		-	. 2	Two small specimens left.
35		4	2.	Unique, species lost.
36	Sterenliacea,			o majori aposto 1004
37	Statenlia viligas		3	
• 3: 3:	a a ecolorata		1	
	,, alath	•		
	Carried over		62	- 1 / · ·
•				*,

Number of Specific.	Name of Species.		Number of Specimens uprooted.	Remarks.
	Brought forward		02	
40	Sterculiacea.—(Continued.) Sterculia urcus		1	
41	£ 4 ? 7		ŝ	All large specimens lost.
42	parvillera	-	1	
43	,, guttata	-	1	• •
44	pallens	-	2	
45	,, campanulata	-	. 4	•
48	populifolia	-	4	
47	Heritiera macrophylla	-	1	
49	Kleinhovia hospita		4	
50	Pterespermum lancesfolium	-	3	•
51	ageroides '	-	2	
52	n acerifolium	-	i	
58 54	Eriolæna spectabilis	¥ .	6	
55	Candallia T		ĭ	• •
56	Guazuma tomentosa		* 1	
	Tiliaca.		4	
57	Grewia asiatica		20	•
5.8 59	Eleocarpue longifolius	-	3	
42	Berrya Ammonilla Linea.			
60	Erythroxylon monogynum	-	1	
	· Rutucea.	- 1		
61	Xanthoxylon budrunga	-	A 1	
62 63	Clausena Sumatrana Feronia Elephantum		. 2	
44*	Ægie marmelos		ĩ	
	Simarubacea.			
65	Balanites Ægyptiaca	-	1	Unique. A faw seedlings value last year remaining.
	Burseruceae,			and Arm rottenane.
-66	Boswellia thurifera	- 1	5 (	
67	Garuga pinnata	-	7	
68	Balsamodendron Roxburghii	100	1	
70	" pengalensis		1	
71	Canarium geniculatum	R	i.	
72	Filieum decipens	-	1	•
Prot	Meliacea.		-	6.
73 74	Melia composita		2	C
25	,, sp. Azadirachta indica		i	
76	Epicharis exarillata		. 4	
77	Sandericum indicum	-	1	
78	Mallea Rothii	-	1	
79	Aglaia undulata	-	3	Tall age to
80 -81	,, spectabilia	-	1	9.4
-81 -81	, nudeaporensis Milnea edulis	•	. 1	lie .
83	Amoora Runituka	-	* 4	
84	Waltura robusta	-	1	1 1 1 1 1 1
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		150	4 9 4 4
	Carried over			

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Number of Spacies.			Number of Speci- mens uprooted.	
25	Name of Constant	1	- E	The same of the sa
0 4	Name of Species.	1	13	REMARKS.
3			egs.	
- T			, F 6	
2			Fe	
	Brought forward		150	
	. Meliacea. (Continued.)	1		
85	Walsura piscidia	-	1	
86	Heynea trijuga	-	1	
87	Swietchia mahogoni (old)	-	82	mr. 1 10 12
88	chloroxylon	- 1	12	These plants were 12 years old.
89	Soymida febrifuga		8	
93	Chickrassia tabularis		8	
91	Cedreia Teous	-	2	All the large trees lost.
	Olacinea.			
88	Olax soundens	-	1	
	Colastrinsa.			
944		-	1	
95	glabra	-,-	1	
96	Celastrus fascicularis Elæodendron longifolium	_	-1	
98	• Alexandra		^	]
			1	
	Sapindaceæ.			
99	Cupania canescens	-	, 1	
100	, sapida	-	1	1
301	,, Madagaseariensis	-	1	
102	Scytslia mangifolia Schleichera trijuga		î	
104	Eriogloseum edule		13	1
105	Sapindus angustifolius		1	
106	,, emarginatus	-	8	
107	, Saponarie	-	2	
108	Nephelium Litchi		1	2
100	longana Tinrpulia-cupanioides		1 2	4  -
214	Saliacea.		~	1
111	Meliosma simplicifolia	-	2	
	Anacardiacea.	- 1		
112	Rhus parviflora		1	
112	Mangifera indica	-	43	
114	(Singapore)		2	A few small plants left.
115	Bunen oppositifolia Buchanania intitolia		ĩ	At low bittatt partits iget.
116	angustifolia	-	î	
118	Melanorrhea usitatissima	-	8	One plant left.
119	Schinus torebinthifolius	-	2	
120	Semicarpus Anacagdium	-	1	
121	concilois		1 8	
123	Holigarna tacembsa Spondias sp.		1	
184	Intea		i	
	Moringgoea.			
125	Moringa pterygosperma	-	2	
	Leguminosa.	*		
126	Agati grandiflora	-	1	
127	Erythrina ovulifolia		2	
128	, , a stricla		1	
٠,	Carriod over		315	* 1

313 35 8 1 1 4 35 4 1 1 1 1 1 1 1 1 5	One much injured spercmains.
35 8 1 4 35 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	One much injured spercmains.
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1 1 1 1 1 5 4	remains.
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	iea.			Number of Spaci- mens uprooted.	1
	8			State	
	102	4 9 Name of Service		orc	Remarks.
	010	Name of Species.		10	PARTE NAME OF THE PARTY NAME O
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	Namber of Species.	5 * * .		Z E	
	1			1	
	•	Brought forward	-	468	
		· · · · Combrelacea. — (Continued.)	1		
	176	Terminalia Belerica	-	3	
	178	*Arjuna process		i	
	179	471		2	Unique, entirely lost.
	180	oblonga '	-	1	
	184	bialeta	-	1	D. 1 C
•	182	Obnocarpus latifolius	-	2	Only a few small seedlings re-
	188	Rhizopkoracea. Carallia Incida	_	9	
		Lythracea.		7	
		hagerstræmia regina	-	1	
	185	Byrsonima lucida	-	1 2	Two small specimens two years
	186	Lafordsia randolliana		2,	old remain.
	16%	Dunbanga sonneratioides		1	
	188	Alangium decapetalum		1	
		Myrtacea.			*
	189	Euchlyptus resinifera	-	2	
	190	Callistemon salignum		3	
	191	Metrosideros vera	"	2	
	193	Eugenia geminiflora		2	
	194	iambolana i	in	6	
	195	" myrtifolia		10	
	198	,, malaccacensis	-	2	
	197	Psidium pomiferum		i	
	199	Melaleuca cajuputi		î	
,		* Samydacoc.			
	200	Homalium tomentosum		2	
	201	" longifolium		1	
*	0.00	Tupidanthus calyptratus		1	
	202	Rubiacea,			
	208	Rondeletia tinctoria	-	2	
	204	Hymenodictyon thyrsiflorum		2	
	205	Nauelea endamba		5	
	206 207	Bandia rubiginosa		1	
	208	uliginosa		4	
	200	decussata.		3	
	2.10	Gardenia longispina		1	
	211.	, tatitolia		5	
	212 213	" turgida	-	1	
	219	Izoru antviflofu		> 7	
	215	Canthium floribundum	4.	8	
	216	Morinda exserta	-	1	* *
	217	bracteato Sapolacea.	-	1	
. (	215	Sapota Achras.		1	Several specimens remain.
	218	Sideroxylon attenuatum	-	4	99 3
	Ţ,	Carried over	-	567	1

,	8			-4 -	
. 1	Number of Species	the state of the s		Number of Speci-	
•	. de .			W 00	
	<b>ੱ</b> ਰ `	Name of Species.		7 ä.	REMARKS.
	i i			20 25	
	-A			Here Here	
	Ę.	1		2 4	
	- 1		1	7 .	
		Brought forward	- 1	567	
		Sapotacea (Continued.)	- 1	001	4. 44
_	+ 220	Sideroxylon inerme	-	1	
	122	Bassin longifolia	-	I	
	222	, latifolia	- }	1	
	223	, butyracea	-	1	
	224	Imbricaria coriacea	- ]	· 1	
	225	Mimusops elengi	-	1	
•	- 226	" kaki _	-	1	• •
		Ebenactæ.			
	227	Diospyros ebenum	-	1	
,	228	montana hotorophylic	-	4	
	229	heterophylia lancæfolia	-	1 8	•
	230 231	, an	•	1	• • •
	232	э, вр. э, вр.		1	
	288	m fr		î	
	****	Jasminacca.		•	
	284	Olea europæa	_	4	One much injured old tree
		4			remains.
	235	Visianio paniculata	-	5.	~
	236	, robusta	-	2	•
	237	Olea myrtifolia	-	1	•
	238	,, grata	-	1	
	239 .	" glandulifera	-	4	Probably lost, except as
		W1 1 11 11 11 11 11 11 11 11 11 11 11 11	- 1		regards seedlings in pats.
	240	Linociera dichotoma	- 1	8	
	241 242	,, macrophylia Noronhia emarginata	_	11	
	243	Nystanthes arbor-tristis		î	
	430	Apocynacea.	1		
	244	Plameria acuminata	- !	1	
	245	alba '	- 1.	1	
	246	Wrightia mollissima	-	1	
	247	Alstonia macrophylla	-	5	One tree left standing.
			- 1		
	248	,, scholaris	-	2 4	No large trees exist.
	249	Holarrhena antidysenterica	- 1		
	250	Thevetia nerufolia  Loganiacea.		1	
	0.63	Strychnos potatorum		1	· 3
	251 252	autu aan		1 1	- ×
	LUL	Biguoniaces.		4	
	258	Stereospermum fimbriatum		1	
	254	у, вр.		ĩ	**
	255	ep. (Pegu)	_ [	1	
	256	cholonoides		4	• 8
	257	,, squaveolous		1	
	258	Spathodea amena	-	8	
	259	, xylocarpa · · ·	-	2	Co total
	260	,, crispa c	-	5	
,	201	cerrulata	, -	. 1	0.5
	262	stipulata state	, =	6 k	
	263	Campanulata.		2 3	tier e
	264	Cak outher indica		1	1
	265	Millipgtonia bartensis		1	6 6 6 6
		Carried over		669	
, I		P C		-	
	£				· · · · · · · · · · · · · · · · · · ·
		A STATE OF THE PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PAR			Land St. Stranger and March

			89 }		
	8 0				1
4.5	- e			Number of Speci- mens uprooted.	. , , , ,
	Specie	#/ # · ·		200	
	े ह	Name of Species.		of International	REMARKS
	5.			ber 188 1	
	Number of	4.		Ber	
	.z			7.	
	-			440	4
,		Bignoniacea.—(Continued.)	+	669	
	260	Kigelia pinuata		4	
	267	Crescentia alata	-	4	
	268	Tecoma undulata	-	3	Two small plants a year old remain.
	269	segratifolia		- 1	respant.
•		Boraginea.	- 1	h l	
ш	270	Cordia myza	_	1	
	271	sebestena		5	
	272	, lævis tectonifolia	~	1	
	273	a luna anno in		1	
	275	angustifolia.	.	1	
	276	grandis	-	3	
	277	Ehretia kevis	4	1	reason and the second s
	278	Verbenagea, Githerenylon subservatum		. 3	
	279	Tectora grandis (old)	_	52	The innjority of these is nearly
					seventy years old.
	289	,, ,, (young)		80	From fifteen to tweny-five years old.
	281	ternifolia	- 1	5	One specimen left.
				Ž.	
	283°	Callicarpa arborea		. 2	- 11 1 10
	284	Gmelina arborea	_	4	One injur edepecimen left.
	285	asiutica.	-	1	
	286	Vitex alara leucoxylon		i	
		Nyciaginacere.		-	
	2984	Pisohia inerrois		1	
	400	Polygonacea.	,	2	
	289	Priplarie Americana		_	
	290	Grevillen robusta	-	4	All the old seed-bearing trees
	•	1			have been destroyed.
		Aquilariucea.			
٠.	291	Aquilaria agallochum Santalacra.	-	8	
	292	Saretalum album		5	
		Laurnoea.			
	293	Cinnamemum malabathrum	-	2	
	294 -295	Tetranthera Rosbarghii	7	3	
	8	Celtidea.			
	296	Ulmus integrifolia	-	1	
	# 297	Celvis tetrandra	-	2	
	298	vinensis Moracea.	4	1	
	498		1	1	m
	800	integrifolia	-	4	The species is lost except a small spedling in a pot.
				3	a se
- "	802 802		_	3	
	503		_	1 8	No large trees left.
	304	, indica	-	1	
		4		884	
		Carried over		004	
	100	And the second s			
		the second state of the second	Markey St.	A STATE OF S	

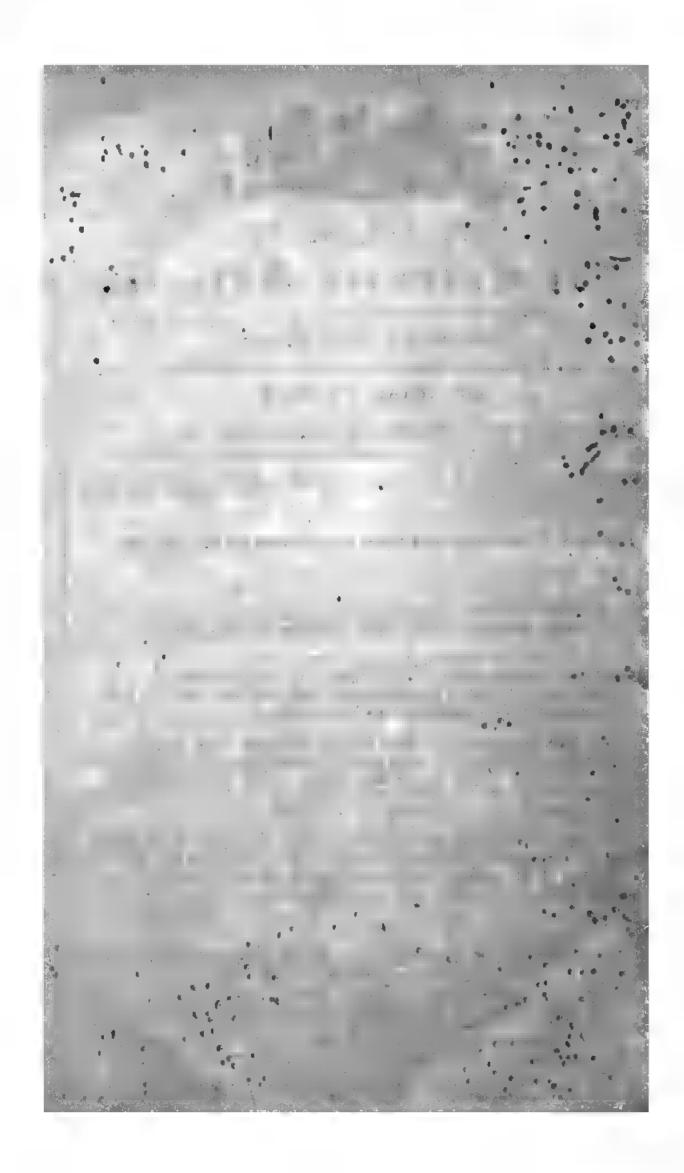
	[ 290	]	
Namber of Species	Name of Species.	Number of Specimens uprooted.	Remarks,
Z	•	1	
1	Brought forward -	834	
05	Moracea (Continued.) Ficus conglomerata	1	
0.0	" Roxburghii	1	
307	" excelsa •	1	•
809 809	,, religiosa	.2	• *•
10	Brosimum Alicastrum Streblus asper	2	•
,10	Euphorbiacen.		
11	Aleurites triloba -	]	
12	Croton joufra	2	
13	Cleidion Javanicum	: 2	
15	Trewin nudiflora	£	
10	Rottlera tinetoria -	1	100
17	Satisfacio cabiferna	1	
18	Stillingia sobifera - Omalanthus sp	1 1	
20	Pierardia dulcis	i	
21	Hemicyelia sepiaria -	2	
22	Briedelia amiona -	1	
28 24	,, lancæfolin Amanon attenuata	3	
25	,, Berryana -	1	
20	Phyllanthus tremulus -	7	
27	Emblica officinalis -	I.	100
25 29	Bischofia Javanica - Glochidium lancæfolium -	1	
30	Putranjiva Roxburghii	î	
31	Cluytia collina -	1	
32	n oblongifolia "		4
88	Antidesma Bunius Cusuarinacea.	1	
84	Casuarina equisotifolia	19	Allethe oldest trees have
85	Ooniferæ.	S	
30	Juniperus virginiana	2	
87 88	Cupressus torulosa -	2 3	
39	Pinus longifoliu	6	All the trees have been
			There are a few pl
ı.D	. hhaman		under five feet left.
40 41	,, khasyana Araucaria Bidwillii	1	Unique appeica, lost,
42	, Céokii -	î	
43	, Cunninghami .	1	-
44	,, excelsa	-4	The largest trees remain.
45	Dammara orientalis		One specimen intolluced 1797. No trees of this specimen was the exist here now.
46	Podocarpus Maki -	• 1	
347	n threiblia "	1	
348	Cycas efectualis	1	C Sultrail Date
348	yeas effemalis ,, liumphii	1 5	C. Spliterida Rozo, Many spenimens remain.

	[2	91		
Number 6. Species.	Name of Species.		Number of Specimens uprooted.	Rенавкя.
	Brought forward	- 1	984	
	. · Musaceæ.	1	-	
350	Ravenala Madagascariencia	- 1	1	
	Palmacea.			
351	Oregdoxa oleracea	-	2	The original trees introduced .
				by Lord Auckland remain.
359	Arcea catechu	-	39	
353	Arguga saccharifera	-	4,	
354	Caryota urens		3	
355	, obtusa		4	
038	an sp.	-	4	Carlot Review, Total Control
• 337	Borasus flabelliformis	[	1	
358	Corypha umbraculifera	-	1	
359	Livistona sinensis	-	1	
360	Chamerops Martiana	- 1	1	
361	Dhornix sylvestria	-	1 :	
* 362	Cogos nucifera	- 1	8	
	Pandanacea.			
363	Pandanus odoratissimus	- 1	1	
	Gruminece,			_
364	Bambusa gigantea	- 1	4	One specimen left.
305	, arundinacea		1	
	<sup>a</sup> Grand Total	-	1,010	•

ROMAS JONES, AT THE BENGAL SEC

the effects of the gale of 3rd June 1842. It appears from his Poport that that storm did great damage to the garden. Dr. Wallich states that 382 trees were blown down. I observe that in this number he includes shrubs sometimes not more than five feet high, and he points out that of the 362 trees blown down 108 were teak trees, many of which were of large size.

18. This gale of 1812 happened before Mr. Griffith had denaded the garden was then thickly envered with trees, and accordingly the number left standing. In May 1843, eleven menths after the gale, Mr. Griffith, in his Report to Government, says—" At present the garden is literally choked with trees." Hus more trees existed in the garden when the Gyclond of last October occurred it is most likely that less would have sheltered each other. In a garden liable to be devasted at any time by furious storms every arborescent species should be represented by at least five specimens. Unique specimens of many species must always exist, but still the endeavours of the Director should be to procure, if possible, five specimens of each species.





SUPPLEMENT

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## Calcutta Gazettei.

WEDNESDAY, JUNE 28, 1865.

## OFFICIAL PAPERS.

A Supplement to the Gazzera will henceforward be published, contening such Official Papers and Information as followed of Bengal may deem to be of interest to the Public, and such as may usefully be made known.

Non-Subar ibers to the Gazerre nay receive the Surrement separately on a payment of six Rupem per annum if delivered in Capita or twelve Rupem if sent by Past.

No Official Uniters or Notifications, the publication of which in the Gazerre is required by Law, or which it has been englowery to publish in the Gazerre, will be included in the Burremmer. For such Orders and Notifications the body of the Gazerre quest be looked to as heretofore.

## Annual Report on the Hill Tracts of Chittagong for the Year 1864.

From W. GORDON YOUNG, Req., Commissioner of the Chittagong Division, to the Secretary to the Government of Bengal, - (No. 76, dated the 20th March 1865.)

I HAVE the honor to forward, herewith, the Annual Report for 1864 of the Superintendent of Hill Tracts. It has been drawn up with care, and it gives, I think, a generally correct view of matters connected with that interesting, but comparatively little known country.

- 3. Such remarks as seem called for from me I have made (for facility of reference) in the form of marginal notes in juxta-position to the paragraphs of Mr. Kilby's Report to which they relate. I here merely append a Tabular Statement of the Judicial work connected with the Hill Tracts which has been disposed of by myself.
- As mapy persons are beginning to take an interest in the Hill District, and to seek for information regarding it, I would suggest that parts, or the whole of Mr. Kilby's Report, might be with advantage published in the Gazetle Supplement, either with or without my marginal notes.

Freed (b ( "Kreny, Esq., Officiating Superintendent, Hill Tracts, to the Commissioner of the. Chittagong Division,-(No. 4, dated the 8th February 1865.)

I have the honor to submit the Annual Report on the Hill Tracts for the year 1864.

2. During the last year the office of Superintendent was held by Mr. Makgill till 27th September, by Babou Oblicy Chunder Dass from that date to 5th October, and since then by me.

3. Middfilat I write in this Report has necessarily been collected from the Office records as it occurred before I took charge, and for the same reason I have not as full information on all points as I might have lad.

I might have fild.

1. I have, with a few additions and modifications, divided the Report under the same heads as were adopted by Mr. Mahgill last year.

eligition Cooyea.

Kookies, and other neighbouring savage tribes.—These savages are divided into three tribes of Kookies, one of Shindoos, and one of Khortages; among these the Shindoos (living on the Koladyne) are considerable most powerful, but until the present year the Kookies gave as the most trouble, and we have opened communications and carried on negotiations with them only. In this we seem to have been successful, as during the year under report we have no reason to suppose that the Kookies were engaged in any hostile attack upon our viltages, and the two previous years were totally unmarked by any outrage whatever. The only two matters in which the Kookies have this year offended are, that a Chief of the Syloo Tribs robbed some Bengalee wood-cutters, probably because they refused to pay the black-mail which the Kookies had formerly been in the habit of the mon were taken away by the Shindoos in a reid.

The mon were taken away by the Shindoos in a raid of which I shall speak harmfler, escaped from them to the Howlong Kookies, who sent them to Rutton Pooyea, from whom they again escaped to our Guard at Kussalong. It them they gain escaped to our Guard at Kussalong. It them they must serve him for one year before he would let them go.† We also, on our part have, if report is to be believed, offended Rutton Pooyea, Chief of one of the three Kookie Tribes, in taking away some muskets which he brought into Kassalong after an order probibiting armed Kookies from entering that Bazzars had been passed, and by imprisoning one of his people for stealing a rat-taip.

\*. \* 5. If these peaceful relations he owing to the meetings we have annually been holding with the Kookies, and to the presents they have received from us, we have been less account with them this year than heretofore. This year the annual meeting was very scantily attended, a few men of the Syloo Tribe, with two Syloo's Karbareca, and Rutton Ponyea's brother, with a few of his people, only having come down to Kassalong, where it was held, while none of Howlong's people and none of the more considerable Chiefs of the Rutton Ponyea and Syloo Tribes came to meet us.

6. I have already reported at length on this subject, and this is not the place to give in tetail the reasons to which were due the failure of the meeting; but the chief reasons are, I think, that the Kookies, like all savagos, are very indolent and lazy and are tired of coming down fear after year to see us, and they seem to have been disappointed in not having received some large some of money, which were apparently promised them unauthorizedly by our emissaries is former years, and do not now believe they would receive all that is promised them. Howlong and Syloo, too, have never come down; they seem to dread treathery on our part should they render themselves into our power. I should they render themselves into our power. I will go to them, or send his some as a hostoge till their will go to them. A further report as to the result of the measures now being taken will be submitted.

The Shindoot and When the content is the Man thin measures now being taken will be submitted.

The Shindoot and When the content is the Man think of the other two Kookie\* tribes, the Chiefs of the other two Kookie\* tribes, the

- 7. The Shindoos and Khoomees live at a much greater distance from the country inhabited by the subjects of our deverament than do the Kockies, and with them we have as yet opened on comthe subjects of our Hovernment that do the Kockies, and with them we have as yet opened on communication, and I scarcely think it possible for us to reach the Shindon country except by the Koladyne, near the banks of which river their villages are situated. The above two tribes have been in the habit for many years of descending into that portion of the Hill Tracts south of the Runnikeles which is locally known by the name of the Poung's country, slaying the Poung Rajah's ryots, hurning his villages, and taking off all the women and children they can acize. Hitherto they have been left to the protection of the Poung, who received a remission of Oupees 2,600 for such a purpose, but he has repeatedly proved himself unable to cope with his savage neighbours. That year two distinct raids were made by Shindoos in the Poung's country, each of which was uttended with great loss of life to the peaceful Hillmon and to the leading away captive by the savages of many of the subjects of the British Government. Elaborate reports have been written on this subject. I need therefore give only the outlines of each attack.
- On the 15th and 19th January a band of Shindoos attacked two villages, killed three men, one woman, and a girl, and carried away, twenty-three men, women, and children into slavery, where, with the exception of the two men who escaped to the Howleng Kookjes, they have remained ever
- 9. Again in the month of April a band of Shindoos attacked a body of twenty-six Bengales wood-cuttors, shot five and captured nine, one of whom excaped. The savages then attacked a Night Village, and out of fifty-six inhabitants killed four, mortally wounded two, and took thirty presents. Hesides this one child was drowned in attempting to escape from thom. Note of the captives have returned.
- 10. Mr. Makgill, with a view of ransoming these persons, crede to the Deputy Commissioner of Akyab. The matter was referred to the Uniof Commissioner, who was in factor of a conference to be held on the Kohadyste, but Colonel Phayre prohibited the using of any equipment measures, and negatived Mr. Makgill's proposition to connect the posts of Akyab with the Hill Tract posts on the ground that it would prove quite uscless. As far as my information can nothing, however, had been done in the tratter of ransom up to dute.
- 211 Police.—In consequence of these continual raids, and to prevent the annual massacres to which Her Majarty's subjects in the Poang's country have been subject, strong are constations were made to Government to sanotion a Police Force to assist the Poang in guarding his country, and for this purpose Mi. Carnet. Captain Graham, and yourself were suppointed to determine what Force of Police was notessary for all the duties that would devolve upon it.

You settled that the Force north of the Kurnafonlee, including the Reserve for the whole country, should be 150 men, and considered that 60 men should be stationed at four posts in the Poang's country. As it had also been found that Hillmen would not enlist on the former pay of 6 and 7 ltupees, and as none but Hillmen could live in these Hills, the pay was raised to Rupees 8.9, and 10.

18. As these changes were authorized only in 1865 the full number sanctioned has not yet here calisted, and the southern posts have not been taken up : \$ but Mr. Scoti, the Assistant Superintendent, is using his

of writing the above the following peaks have een tukea tip. — Plottoh, Kinorig, Chemah Khoong, Maraj Cherree—all anticyt tip, furtesteelee.

Mr. Scott, the Assistant Superintendent, is using his best endeavors to complete his complement and has gone down to the Poang's country to fix upon the sites where the stockades are to be made. Orders have also been issued to the Poang Taja to equip seventy men to be stationed at three other posts who will be taught the English drift by our Constables. With this Force it is hoped we shall be able to pre-

vent the Shindoos from committing the able to prevent the Shindoos from committee the shindoos from

14. Besides these reasons there is, I consider, a still graver cause for fear. In the margin of paragraph 12.1 have shown the sanctioned strength in each post; by this you can see that in only two posts is the number of men in excess of twenty, and there are three of even smaller strength.

15. When it is considered that out of the available Force at each post some mon will be required to given the stockade, and one or two may be ill. I am much afraid that the remainder, calleted as they are from the timid races of these Hills, mixed with a few Munipoorees and some tengalees, would not dare to venture out of their stockades to attack any marauding body of savages.

	166R	1862,	1863.	1864.	troposed erroughb
Ka-satouge Kinshusys	 250 ; 50 ;	150 30	40 :	30 80	85 18
Goldhause	80	0 60	20	16	25
Total	 350	230	60	95	98
Ranghor Manik Clarree	 18	12	6	0	8 B

In your joint Report (paragraph 10) you assume, because the Kookies have not committed any raids since the northern posts have been taken up, that the Shindoos will also cause their expeditions when the southern posts are established. Even grant: ing the pren ises, I cannot come to the same conclusion, for the Shindons have never been punished or made to feel our power as have the Kookies, nor have we tried to conciliate the Shindons by yearly Rangametra ... 50 50 20 15 20 have we tried to conciliate the Shindoos by yearly presents, and in the above proposition an important point seems to me to have been overlooked which, I consider, affects the whole argument. In the margin I give the approximate numbers of men in each post in the years 1861, 1862, 1863, and 1664 as I have learnt them from Mr. Scott, who was hereat the time. By this you will see that in 1864-65 not much more than a quarter of the men were or are sanotioned for the posts first mentioned than were stationed there in 1861, but there were more than twice as many in 1862, while in 1863 lad whole Northern Frontier between Kassalong and Ranghur was left har of men so that it can scarcely be said with any justice that the Kookies have not attacked us

har, of men, so that it can scarcely be said with any justice that the Kookies have not attacked us because we had posts, and, excepting in 1863, our present power to provent and punish raids cannot be compared with the power we had in the previous years.

17. Since their decrease in strongth our posts have never been put to the trial; the Kookies having been defeated by the larger guards, may dread to encounter the smaller ones, but the Shindoos forms fresh into the field without previous defeat to damp them, and I am afraid, if either the Shindoos of Kookies should descend, that they will discover that the posts at their present strength need not prevent them from pavaging the country.

15 For those least thirty-five men. For those remote I have always urged that each Frontier post should be manued by at

10. When the new Police was first introduced in the Hill Tracts its Officers seemed to be under the suppression that they were bound to act precionly as they would have done in a Bengal Regulation 1d wick and as the method of procedure of the Courts is quite distinct some inconvenience wis the result, especially in the Poang's country, as the Poang has been for many years invested with Pohee powers and it was considered likely that the two sets of Police would clash. This has been remedied by the interference of the Constabulary having been limited to believe and grave breaches of the peace.

20 Their principal daty will now be to guard the Frontier, to prevent the passage of using and ammedition to the Kookies, unit to prevent and detect robberies, markets, and armed rious

21. Mr. Makell was much opposed to division of the former power of the Superintendent of Rill Tracts by the appointment of a Superintendent of Police, where he considered to be in a manner independent of his authority; but I am happy to state that, owing to the beamony existing in the offinial relations between major and Mr. Scott. I have been sensible of little of this weakening of authority, and, as far as my Appricate goes, I have had no reason to think that such division has a transmitted this little ret.

Mr. Scott has considerable experience of the Hill people, is very anxious to the his duty well, and spares no election in travelling about the process of the District, looking to the little his men, and seeing that they are effective for active duty. This lost is the most important part of the work of a Police Office, in the Hill Tract. or iff the good opinion here expressed of

Justice .- I append Statements of the Criminal, Civil, and Revenue cases instituted and disposed of during the past year.

24. I have prepared a simple annual Statement for 1864, shewing the description of Grimmal cases tried, and the number of persons advicted, acquitted, and who await trial. As this is the first Statement of the kind submitted hitherto, I am unable to institute any complete comparison between this and the previous years; but Captain Graham, in his Report for 1862, states that one unpable homicide, one attempt to murder, one murder, two descrites, one highway robbery, one rape, and one suspicion of murder appeared in his Statements. These were, however, explained away; the culpable homicide arose from mortification ensuing on a slight wound given in a quarrel; the attempt at murder was, one Sepoy of the 5th Bengal Military Police Rattalion shooting at another and missing him; the murder was no accident out-shooting deer; in one of the decolities nothing was robbed, and the other was not a dacoity at all; the highway robbery was committed in Chittagon; and there was no proof that Hillmen were concerned in it; the rape case arose from a man cloping with a girl to marry her according to the Hill custom, which is not looked upon by Hillmen as an offence, and the suspicion of murder came from Chittagong; a man it seems had gone into the jungles and was not seen again, but no one was suspected of killing him. And Mr. Makgill reports for 1863 that no crime worse than a case of wounding occurred in that year, so that more crime appears to have been committed by the actual Hill tribes this year than in former years.

25. Doubtiess more offences are committed than came before the Courts, for this passey an increase in the convictions and in the number of Leinous cases tried is, I think, a set of the well working of the Courts and Police and the other chand, it is probably better, in petty cases, that the Dewans or Rowajahs, and an increase in petty Criminal cases is therefore to be deprecated

The following cases alone call for a brief notice :--

In the murder case two Mooroongs—Tewai and Sewango—came together to a Bengalee Village. Towai said he had cotton to sell and induced two Mahomedans to take Rupers 140 and with him to huy it. Sewango had gone before Towai and the Bengalees were seen going to Towai's village, and afterwards he was seen with them carrying a dao and musket. As they did not return for some days a relative of the two Bengalees complained at the Thannah. On investigation a woman wind the Police that Towai's wife knew all about the matter, she, when asked, admitted he had confessed to her that he had murdered two Bengalees and he had burnt them; she shewed the Police the askes of the murdered men; near these was found a key belonging to them which fitted the look of a box in their houses, and a bloody cloth, and hidden under the earth was discovered a bloody dao and Towai's musket. He afterwards confessed that he had shot both the Bengalees with one bullet for the sake of their money, and he also admitted that holded are cotton to sell. The other defendant, against whom there was committed to your Court, where he was convicted of culpable hymicide and sentenced to transportation for life.

portation for life.

27. In the attempt to commit culpable homicide a man and his son-inclaw disputed about some cotton. Somebody (unknown) urged the son-in-law to shoot the old fellow, he raised his gun and fired, but the father-in-law got behind some jungle and the shot did not take effect. The man and a Dewan, who was present and said to be abelling, were committed to your Court the first was sentenced to six months' rigorous imprisonment, the latter was acquitted.

28. The description of the Joons were hound at night and their houses locted by some seven or eight people, of whom, they say, they recognised three, but little property was taken and the complainants were not injured. Delendants say they are charged maliciously because of a time case has state been discussed for want of quarrel about some Juoming ground. The case of illegal assembly has been reported to you before it is the one in which Ongra Phroo, a Much, cave out that he was going to be the new king in place of the Poang Raja and that his dominion while axtend all over the Hill Tracts and from Cox's Bassar to the Mugh Bassar in Dates. Some hundreds of armed villagers collected inder this new Chief, but they committed no outsides had shrendered themselves to the Assistabt Superintendent of Police and of the Constables as soon as that correspond to do so. The pretender was imprisoned for any months each. In connection with this case I was ordered to induce the plant was that the Poang's ryots had against him. I found their only mat result aline was that the Poang sould not guard them from the Kockies and Shindoos, but this, owing rather to his poverty thangto his war, of inclination. The new Raja, as he is called, bling algority in the Foang said when released from prison came to me and I gaste him a site near the Purrain Guard, where he will be safe from the Shindoos and the Poang and will be a delighbour to the truard, who yould atherwise be twenty miles away from human habitation and would playably feel inclined to discrete that the Poang and whished, in fact, to be independent of him, bettling I have personnelled, and when writing to the Poang not to prevent the migration of Ongya Phron's realized and the part of him forther than a site of providers, and which all his former rights as landard over engage there and his colleges.

297

20. Registration - Late in 1863 certain rules for registration very similar to those in force, in Scattled Perguagativery promulgated for the Hill Tracts. A term of three months was allowed for registration of all freely, and a double fee was imposed for deeds registered after that term and within six months. As this was a novel rule to a people not much accustomed to pay attention to any law, scany deeds very not registered within the time allowed and have thus become invalid and many complaints are many about it. Then the rules include almost every description of deed for the smallest sures; and as in this large Tract, where communication is very difficult, there are only two Courts, the principal of which adons is much recorded to, people are put to much trouble in naving to come to register their deeds and thus commercial operations and time-bargains are greatly hampered.

am thinking of proposing some modifications, but will discuss them at another time and

Number of Dools pro- cented for registry in 1884.	No. in which registry was	No. in which Registry was refused.	Transferred to Civil file	Pendink.	Fem received.	Amount paid to the Stration Muhorit.
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The exception now is the Waste Land of which much has been sold, as I shall or need to show.

in another letter. In the norgin I have given a statement of the run ber of deeds rega-

teset, fees received, &c.
31. "M. have been levied in the jungle produce of the Hills since 12th Pebruary 1562 on the River Kurnafoolee, and succe 12th February 1865 in the Sunkoe, Matamohorce, and Bugkhalico Rivers. They give as much revenue to Government as the aggregate amount for-merly\* receivable from all other sources, are easily lavied, and are so just and moderate that just and moderate that no one is injured by them. From the 1st January 1865 the principal river, the Kurnafooles, has been farmed, under orders of Government the latting of

ment, to the Kalinder Bance at an annual rental of Rupees 7,666, and I shall propose the letting of the other rivers to the Poung, but an Annual Report is not the place to treat of such matters.

32. Copilation Tax.—This Tax is a rude substitute for roat for the use of soil. It differs from rent in so much that the amount of the Tax is not proportioned to the amount of had cultivated, nor each to the anomaler of cultivators, but is an unvarying sum levied upon each household, no section whicher few or many.

33. Different rates are taken by the different farmers, but all on the same principle and under the same rules, one of which is that no widow or widower, no an narried man or maiden is charged any thing though they may, by inheritance or industry, he the richest persons in their villages and may cultivate the most land; but as rich men are never content till they, have married, and women stay unmarried no longer than they can help, and the children leave their father's houses, marry and make new households, the families are generally preity much of the some number and strength and all the substantial injustice is done.

34. Another very curious rule is also in force and very cherriuly obeyed, that is, as the tax ill not leviable on the land the people themselves are considered the farm. Thus if one of the Chiefs sells a Tabok, he does not sell the right of levying the tax over any specified trust, but mentions the names of the Jooneus from whom and whose children the tax is to be taken, there may then consider themselves the Tabok of the purchaser. Occasionally when a Tabokhlar makes, himself anpopular, they abscord and go to mother man and will then swear they are his property. Even parts of a Joonea household are sometimes only of several men, but no rease of shame sometimes of the condition in lither case; nor,

seems to attach to their condition in either case; nor, since the really heart of the Hill Superintendency, has there seemedy been a case, I believe, in which I decided has tried to escape payment of his tax to an uniquellar Talcoldar on the ground that he had been as pure of the country and settled in mother thief's land, but the invariable decides is that they belong to another and never did belong to the unpopular man. This matter has had the chosent them in of the producessor, who wrote a long report on it, and I also have given much thought to the subjects.

the subjects.

35. Although at the first cow the Capitation Tax seems a very unjust and degrading form of remail, yet there are upday difficulties in introducing a better system, and in no other way could the tax be gathered and beapty; and besides as the people (as also the Tipperal Raja's effects); see as been in it and have been accontained for many generations to this form of tax, there are not same argonic results in a different system as there would be were the present tax maps pular. But indeadabledly same changes are required, and the rights of the Chiefs, which are at present very anothered, require to be fixed on a charmonic that in the limits have in an Annual Report; I will therefore but it he over for a time until I can write a separate report on it.

B6. I cannot give any returns of the amount paid by the different formers, as among its other popularities the menagement and assessment of the tax is quite out of the protings of the Superfactundent. This is paid to the Collector of Chittagons, who having no other concern with, we knowledge of the Hill population, and no recars of pageing into the correctness or otherwise of the numbers returned, leaves the settlement of this tax with the Chiefs and people. As might be concluded, for ratio betakes are about one-fourth, the sum received by the thirds to whan long leaves have been given and and outpaints have been made to me by the Poang and the Man Raja that their ryots, in order to pay the lighter tax, now swear themselves to be nonbadees or late immigrants and get agreements from the Collector direct instead of from their own Chiefe.

37. Education.—In June 1863 a School for educating Hill children was started at Chundergona, and a grant was obtained from chovernment of the late of the lambers are about one-fourth, the sum received by the thirds to whan lag that their ryots, in order to pay the lighter tax, now swear themselves to be nonbadees or late immigrants and get agreements from the Collector direct instead of from their own Chiefe.

37. Education.—In June 1863 a School for educating Hill children was started at Chundergona, and a grant was obtained from chovernment of the started and the lighter tax, now swear themselves to be nonbadees or late immigrants and get agreements from the Collector direct instead of from their own Chiefe.

38. As p. and a grant was obtained from chovernment of the late of t

hant for 1854
Amount expended
Average daily attendence of
bounders
Average daily attendence of
day scholars

28. Waste Land.—In the margin is a Statement of the lands sold during the last year, their price, for of the last sold and Epplication all but three were surveyed last to be realized.

Area in Acres. Price per Amount region. Amount regarding. Total and previously three were surveyed last year by Ameerica. These Ma. As. P. Barris, P. Ba. As. P. Rs. As. P. ( 17 poles ) \$100 A 1,99,088 16 9 2.00.277 9 3

Rn. Ab. P.	kayo boan'i	ata applied for adversional for			Probabl	by sale.	
The state of the s	1			-	 11 .	تقالساته كالأساسة	

Average daily attendance of day scholars

107

Cost per head of boarders

108

This is not quite correct, the average is fit or a little more for the boarders, and some fraction for day scholars. The day scholars abtain tuition gratis, but thoy are not reckened in calculating cost.

1 Sommon's the boarders at stilled own expense, they have received has doubtless considerable nearly looks, dec. otherwise the sames would average ably on larged their minds and will probably bear good fruit in the future, especially as many of the boarders. The day scholars and about Bajone 66 per bend.

Capitation Tax has been farmed. The Min Raja has also been very desirons to have a School is his village and offered to subscribe Rupeus 10 a month towards it, but as the continued existence of the Chundergona School.

28. Waste Land.—In the margin is a Statement of the lands sold during the last year, their price,

year by Ameens, Thew

difficulty was experienced in obtaining Ameena, and as the rush for lots was chiefly in the rains and the Planters were very argent for receiving inmediate possession, prior survey and domarkation was dispensed with. This departure from rule was

anotioned by you under the belief that natural boundaries could be taken from the Topographical sanctioned by you under the belief that natural boundaries could be taken from the Topographical Survey Maps and a sufficiently approximate calculation of area made from them. Had hullahs or particular hills been fixed on as boundaries little or no difficulty would have been experienced, but the boundary in many lots was identical with that between the Hill Tracts and Zitlah Chittagong. This boundary is a most intracate one, and in most places lies to the east of the surveyed areas of the frontier villages in Zillah Chittagong. It is impossible, without having the map, to descover what lands have been surveyed. The Ameens were not at first supplied with maps, and hearing that Mr. O'Donell had, in his surveyed the Hill Tracts, "drawn his claim" for his base lines through fields in the plains, thus, in some instances, laid down the boundary of the Waste Land lots on this line as far as they could discover it, thus including permanently-settled land within the boundaries of the Waste Land lots. Waste Land lots.

This error is not of much consequence, but will entail the re-survey of all such boundaries 40. as have been found not to tally with the survey maps.

41. For some months he was expected that professional Surveyors from Mr. O'Pone's agree's would be ordered to survey bless lands, and only in December were orders received from the externment of Bengal, to the effect that the Amoens' survey, when tested by the Superintendent and by comparison with the Tophagraphical survey maps would be considered sufficient.

42. As I had not sufficient leisure from other important duties to be able to under an the winde work myself. I applied for assistance, and Mr. Davey, a Deputy Collector, who was toraisely is professional Surveyor, was deputed for the purpose of assisting me in typing the Amtens' surveyor. He is now engaged in this duty.

and they at the surveys were made during the rains by Ameens insufficient, qualified for their stock, and they at the top properly at most down to have published that such as properly at most down to have their stations. Not, insure to the answer made in the time that has chapted by the first survey and the testing these stakes do not to be found and much difficulty is experienced by Mr. Have in testing.

44. I have reason to apply this lifticulty will not occur in some of the Tols last surveyed, or when the testing of all the present has a finished that we shall again by ambarrased by similar

**计算数据数据** 

the Government expanditure in thes

ERRNDIFO	W. *	13,915,	1861.	1,668,	1863.	1884.	Bumares.
		Ruppes.	Rupocs.	Rupces.	Rupcea	Barpees,	* Those figures are
Runkie Expedit an Mateur Divisory Po Cost of Civis Chies	lice	100,000	56,1000	87,000*	21,800*	29,718	dyea as a gitem more by, we have no record
gaperint Mident's programme allower	15 m	2010	13,400	8,400	7,000	7,001	in our Office on these spoints, Mr. Scott was there were about 60
Other from		100	1.233	2,220	1,074	3,314	Silitary Police with
Tu	la	1,08,403	54,576	44,169	\$1,020	48,000	Lientenants in 1851
Itaccipts Capitation Tax - Folls	* #.	1,000	9,000	9,790 9,790	P.000 11,817	8,0 -0 12,134	Lieuremants in the length along of 1863, and 50 at its end.
Wasto Landa Othersteam : 4	1	1	815	549	247	2,00,877	Andatent Superinten
Te	iai	9,000	0,645	19,175	20,564	\$,21,831	dent from his Oillion  3 I have not the out  thought of the facts
talance of lors Dista of profit		1/8,40s	48,861	54,908	18,561	1,70,130	Melial, but this i

The maps of the country much at the Kormibides are at present with the Survey Deputy Collector soil and quable to give the executors but if I requesion right this is about correct. The area of the country south of the Kormisoles is 2,250,411 acres, or 3,325 square takes.

Tracts has been greatly in excess of security a rate this year the maney to be received from Waste Lands will go-

present expenditure.
46. The surveyed area of these Hills is area of these Hills is about 7,000 square titles of about 45° lacs of acres. The greater part of this sum well suited for tea and coffee, and all but a comparacively very small area is avertable for imprediate said and planting, so there is space for 2 or 300 Planters each with his 1,000 acres of land, therefore there is no

perhability within this generation of the lands being all sold, or, if labour is obtainable and coffee and ten planting remain nearly as profitable commercial speculations as they have hitherto proved, of this scores of revenue failing for many years to come t

on in marginal note to paragraph 54.

47. On the eastern side of the Tract there are also high ranges of hills rising from 2 to 5,000 feet above the sea level, where there is a very heavy rain-fall, and which, I should think, would be admirably adapted for the growth of the Cinchona tree. As ten and coffee plantations extend, the savage tribes on the cast in Frontier will either be thrown further back or coerced or induced to live in a more peaceable way, in which case those Hills might be taken up for Cinchona plantations.

48. I should imagine that the climate and soil are both much like those of Burmah, 48. I should imagine that the climate and soil are both much like those of Burmah, and I confidently believe that teak and other Burmese timber trees would grow here to perfection. But as the pernicious mode of Joom cultivation has been practised without restriction in these Hills from time immemorial, and the people of Chittayong and Sundeep have been for generations in the habit of cutting and transporting all good timber trees, flows in constitution has been for generations in the habit of cutting and transporting all good timber trees, flows in easy reach of water carriage in the Hill Tracts?

With a little care and some expense for planting and conserving I have no doubt that fine forests of I have not would be grown; there in the end would, I should think, return cent per cent the expense of planting and looking after them.

Commissioner.

49. I have hitherto had no leisure to commence that expenses are all from reading or personal experiences in the condition to give any authorite.

any experiments, nor am I, from reading or personal experience, in the condition to give any authoritative opinion on the best way to develop the agricultural and other resources of the Hill Tracta, but I intend to study the subject and hope during this year (1866) to lay some plane before you for your consideration.

50. It has come to my knowledge that many persons have obtained "pottuba" (leases) from the chittagong Collectorute for grass lands, wherein that thirtagone liberte, and they have effect by an investigation and an doubtful sutherity.

W. C. Y.

The chittagong Collectorute for grass lands, wherein boundaries are given ambracing large areas, but in which some very small area is mentioned. For instance, a picture information and on doubtful sutherity.

W. C. Y.

Considerate in which there are contained our thousand

w. U. Y. boundaries in which there are contained our thousand nervs or kanes, whereas in the hody of the lease they are star. It contain only ten kanes. As these lands or very profitable and require little or no labour they as universet often for 50 or 100 times the cent paid to Government. The balance of gain has been obtained by fraud and misrepresentation and belongs of right to Government. I intend investigating these masses with a rise to restore to Government that which rightfully belongs to it. This is difficult or do not require time, for the holders of these leases are very charg in producing them and in suits between therent claimants possession is more generally invisted on than eight. I will report any steps that I has take in this matter hereafter.

61. Within these Hills there are none valleys and plains of large extent and so low shif moist that paddy and other grains could be cultivated to great advantage in them; but as simple-conting is costly, labour nearly improdurable, and as Bengales ryots are averse to living in the Hills, these lands are likely to remain possitivated for some years to come. But if any adjenturous expitalist like Mesers. Morell in the Sunderlands were to devote himself to collavating these lands trent profit to himself, and great gain to the country, would result. In future years doubtless there lands will be taken any ambiguition of

The population of these Hills is estimated to be about 00,000, but I consider the first could consider the item of the physics where the lift Treets, that is, on the astronton boundary of the physics, where lead about is plantful. If had is brought further in local labour is plantful. If had is brought further in local labours, and it the grain of the physics, and it to grain increase of plantful not supply the deficiency. I knower, there is steam communication by an article and and the physics and carries that have not an extreme the physics of the physics of the Hills and Christopar is much never the bloom markets of the whole of Remain with the land would and the steam communication by an article and the province of the labour markets than Assau, and the first of the physics are the labour to the labour markets that a the physics and therefore the labour could be imported must chargely, and I here there would not be that anexons are market they will not obtain a milicent number than the Assau.

The hard and parbase this letter quality of land anish counter-balance, in some degree, the grown of the produce, consequently grain is scarce and destroyed, in many places, a full half or two-thirds of the produce, consequently grain is scarce and destroyed, in many places, a full half or two-thirds of the produce, consequently grain is scarce and destroyed, in many places, a full half or two-thirds of the produce, consequently grain is scarce and destroyed, in many places, a full half or two-thirds of the produce, consequently grain is scarce and destroyed, in many places, a full half or two-thirds of the produce, consequently grain is scarce and destroyed, in many places, a full half or two-thirds of the produce, consequently grain is scarce and destroyed, in many places, a full half or two-thirds of the produce, consequently grain is scarce and destroyed, in many places, a full half or two-thirds of the produce, consequently grain is scarce and destroyed, in many places, a full half or two-thirds of the produce, c

- 54. The constant dread of Kookies operates also to decrease the agricultural outturn of the District, as rumours of Shindoos and Kookies being out on the war-path are continually being outside, and the villagers, as soon as they hear this, leave their fields and homesteads and crowd on the banks of the Kurnafoolee for safety.
- 55. I hope that the new posts will give more confidence, and as they are situated in fine doom-ing lands, many hundreds of Joomeas might acttle with both profit and safety around them.
- 56. Public Works.—The Public Works year ends on 31st April, it will be more to we ment then to report upon what has been done than to do so now, otherwise parts of two years would come under review and it would be necessary to mention the grants for twenty-four mouths while the work would have been only for twelve months.
- 57. I may, however, mention that the road to connect the posts of Kassalong, Khakhuris, and Golabarco is being made under the superintendence of an Assistant Engineer, and, it is hoped, may be completed this year, and that a hill path from Kunchun Nugur to Manick Cherro and Mahare and from thence to Ramghur was also cheared by the blan Raja at an expense of Rupers 1. during the year under revein.
- 58. This last road was about sixty miles long, so the cost vivilde averaged only a little more than Rupeer 30. For such a sum, it will be evident; nothing but more jungle-clearing could be attempted, and I have since heard tint a great part of it has become again choked up with thatching grass. Provision was not made for keeping the road clear, and as it was completed just before the rains, and jungle grows up with wonderful rapidity on this country at that season, and the road was taken for the most part through grass kholes, it is not to be wondered at that such should have been the remult.
- I intend, as soon as the Superintendency Elephants are returned from the Boutan war, to visit that part of the country and will by some suggestions before you as to how the road may kept clear. I dare say the Man Rajah would take a centract for such a purpose at a low ente.
- 60. Paths made by natives for their own convenience are cleared twice a year, and if we are to obtain any value for the money spent on the various roads, it will either he necessary to contract with the Hill Chiefs or others to keep them clear after they have been completed, or to part a gain of Coolies to continually traverse and clear the roads. The Police Force is far two wine steeps able, deaded, to perform any such duty satisfactorily.
- 61. General Health.—The health of the people last Year was good. In 1962 a great epidemic of small-per broke out and before that cholera raged, but for the last few years the bountry on hour free from contemporaries. 6

Since the date of the report there have been these there than to any precaution of the proper than to any precaution of them. The people in the Hillenge not ordered attended and the lemme than one winds adverted to the remaining empty of the transformation of others.

The people in the Hillenge not ordered in the regarded and the transformation and thin the complete to the regarded and here there are no cost prejudices to overcome, and there would be no great difficulty in causing overcomen, and child in the Hill Tracts to be vaccinated if success in the cases could only be obtained.

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62. Office Work As Layting. — When Captain Magrath was first appointed he had no Writers and kept no records, necessarily so attempt at routine, and up to the present time the business has not settled down to the smoot ness with which it proceeds in Offices of larger standing. Only a short time before I assumed the go the Office Establishment was increased.

G1. When I came the records both in the English and Bengalee Departments were in the greatest confusion, and reference to previous correspondence and work was very difficult. Nor had the system been introduced which obtains in Regulation District Offices of portioning out the work to the different intristerial officers and making each responsible for the due performance of his own duty, as a consequence it was impossible to fix blame upon any particular person when anything went wrong and each officer thirded the work and left it to be done by others.

60. The strength of the Establishment is now quite sufficient for the work devolving upon it and I have portioned out the work and given each officer to understand that no excuse will be taken anything in his Department is faulty.

Of The ministerial officers as a body are not deficient in ability, and I hope now that all business will be transacted with that punctuality and care that is usual in Regulation Districts, and you will have less cause to complain about statements sent in late and wrong than you have had since I first came, and that you will not have reason to send so many reminders of work left undone and letters unanantered as you have had.

67. Saloo Bhugwan Chunder Bose was for a few days the Assistant to the Superintendent, but I saw nothing of his work and can give no opinion on it. Since then Mr. Kelly, the Joint Magistrate, and Bahoo Goloke Chunder Roy had charge and transacted in Chittagong the listle business connected with the Assistantship. The work of neither has come before me, I am therefore not in a position of report on it.

\*An Act in remove the Hill Tracts cast of Chittagong from the jurisdiction of the tribunals established under the general Regulation and Acts.

\*An Act in remove the Hill Tracts cast of Chittagong from the jurisdiction of the tribunals established under special limit of local application is made) passed since the general Regulation and Acts.

\*An Act in remove the Hill Tracts cast of Chittagong the property of the Hill Tracts.

69. In reference to the above ruling you called upon Mr. Makgill' to give his epinion "of the whole question" in order "that an early report might be submitted to Government on the modifications which may be thus rendered necessary in the Rules of practice at present in force in the Hill Tracts."

70. In his replyt the matter is just touched on, the greater part of the letter being taken up hy the reasons for increasing the Office Establishment: he only writes, paragraph 4;—"There does not appear to be any ficultar reason for exempting the Hill Tracts from the action of the Stamp Law, and L do not at present perceive that any very important effect is likely to be fell from its recognition," and dees not give his orinion on the advisability or otherwise of having the other Laws introduced, or suggest any course for adoption with respect to the above ruling.

71. There are no conica of Acts and Regulations in this Office, but I have sent for them; when they arrive, and I have looked over each Law, I will, if I find it necessary, report upon any that I think should not be introduced.

72. Although in the letter above quoted Mr. Makgill gave no decided opinion, I gather from "I want treated by acceptant the assimilation of the evators of Government of Misseaus try to the set of Secondarion District in most unadvisable. The condition of the two speechs to the important distriction of the acceptant distriction of the two speechs to the important distriction of the acceptant of the following the first tree of the control of the first tree of the control of the contro

his remarks in the last Annual Report that he was strongly against assimilating the system
of Government of this
country to that of a
Pagulation District Is
the margin I give his
remarks, in which I entirely concert, and I greatly resect the rule ing., as its effect will

evidently be to produce the assimilation which Mr. Makgill deprecates.

dated
Chundergona,
Fear 1864,
Par the
Superintendency
Il Tracts
the Illi
Crimes in
Return of
Fearly.

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A franchischer des and			Handars.		Three raids by Shindoos, I (one) petry dacoity by Krokies, in which the rubbers were not identified and could not have been seized, and one report of some dacoite having your to an empty village, fired off guts, and retried without taking any property. No personal finelusive of complaints against Chiefe and petitious that they be ordered to refrain from oppression.	G. C. KILIE Pacte.
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Yearly Statement of Givil and other Gusen for the Chickagong Hill Tracks for the Year 1864.

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Direct Performer Cases.	Pending from	Ins Patrol City- ing the year.	Total	Degreet	Dirmissel.	Strack off.	Rafoned.	Compromised	Transferred.	Nominie	Pending at the close of the 170s.	Rujeadas.
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(8d.) G. C. Kinsy,

Officiating Superintendent, Hill Tracts.

State at of Indicial Work relating to the Hill Tracts of Ohittagong disposed of by the Commr.

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Description of		Number of Cases appealed organist the decision of the Superinten. deut, Hill Tracts.	Xumber of Cases	Number of Caies roversed.	Number of Cases medified.	Number of Cases
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DESCRIPTION OF CASES.	Number of Cases committed by the Superintendent	Persons.	Convicted	Acquitted.
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W. G. Young,

Commissioner.

Commission of Orrios;

"Resolution by the Lieutenant-Governor of Bengal,-(dated the 8th July 1555.)

READ a letter from the Commissioner of Chittagong, No. 76, Giled the 26th March last, giving cover to the Annual Report of the Superintendent of the Lill Tracks of Chittagong for the year 1864.

- 1. The Liceutenant-Governor observes that the matter discussed in paragraphs 1 at 10 of the Report have formed the subject of a separate correspondence and the Superintendent's remarks do not therefore require notice here.
- 2. The question of Police Posts treated in paragraphs 11 to 22 has also been entirely disposed of. The Lieutenant-Governor notices with pleasure, the very favorable mention made in paragraph 22 of Mr. P. U. Scott, Assistant Superintendent of Police.
  - 8. Paragraphs 23 to 28, and the Statements appended relating to the administration of Civil and Criminal justice, do not sall for any special remarks. The result of commitments in Criminal cases is not very favorable.
  - 4. Paragraph 30 of the alterations which the Superintendent proposes to make in the system of Registration. The large proportion of cases in which registry was refused during the year is somewhat remarkable and should have been explained.
  - 5. In the Statement given on the margin of paragraph 31 of tells levied on the natural products of the Hills during the year 1864 the Lieutenant-Governor notice a great difference in the ratios of receipts to cost of collection. On the Matamohous Rupees 984 were collected at a cost of Rupees 140; while it cost Rupees 296 to gather in toils to the amount of Rupees 580 on the River Sunko. This requires explanation.
  - 6. Paragraphs 32 to 36 relate to the Capitation Tax. This tax, though a rude substitute for rent for the use of the soil, is, in the Lieutenant-Governor's opinion, by to make an unjust and degrading form of rental; nor is it an unpopular tax among the Lieutenant The remarks in paragraph 36, however, indicate the necessity for an immediate change in one respect, and the Lieutenant-Governor does not understand why it has not already been carried out. Article XI, of the Rules laid down for the guidance of the Superintendent of the Hill Tracts when that office was first created expressly declares that it will be the duty of that Officer to collect the revenue of the Hills. This Rule should now at once be put in force,
  - 7. PARAGRAPH 37 .- Education .- On this subject the Lieutenant-Governor awaits the special Report promised by the Superintendent.
  - 8. Paragraphs 38-52.—Waste Lands.—The errors in surveying are much to be regretted. The Auceus employed should have been supplied from the first with the Survey Maps of the permanently-settled Territory and of the Hills. . .
  - 9. With reference to paragraph 48 the Commissioner should report whether he would advise the introduction into the Hill Tracts of the provisions of Act VII. of 1565, (for the protection of Ferests,) and the Conservator of Forests should submit a Report on the timber in the Forests of Chittagong.
  - 10. The irregularities noticed in paragraph 50 will be checked when the retenue of the Hill Tructs is placed under the Superintendent.
    - 11. Paragraphs 53 to 72 do not call for any remarks.
  - 12. The acknowledgments of Government are due to Mr. Kilby for his intelligent and interesting Report.

From J. Gregoriagan, Each Under-Secretary to the Government of Bengal, to Dr. T. Andrews, Conservator

I am directed to forward to you the accompanying extract (paragraph 48) from the Armual Report on the Hill Tracts of Chittagong for the year 1801, and to redirect that you will have the goodness the submit a report on the timber trees which grow of can be grown in those tracts.

## by progress of Tea Cultivation in the Assam

H. HOPKINSON, Agent to the Governor General and Commissioner of Assam, to the pount of Bengal,—(No. 180, dated Commission, the 20th April 1865.)

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submit the following report on the progress of Tea cultivation in this

Division	during	the	past	year :-	
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2. I have condensed in the Tabalar State-
most on the murgin the information obtained
from the Returns of District Otherns in re-
gard-(lst,) to the number of Tes Gardens
now in Assum; (2nd.) the amount of local and
imported labour employed on them; (3rd,) the
extent of waste land taken up for Ten cultiva-
tion; (4th.) the terrores under which it is held;
(5th.) the area chared and planted to the close
of the year of report; (6th,) the outturn for
1863 ann last year and the expected outturn
for season 1865.

3. Official records have supplied the details of waste land taken up for Tea; but in regard to the outturn and extent of cultivation of each

District. Deputy Commissioners have had to rely chiefly on information obtained from the Planters themselves.

4. Where for comparison the outturn and cultivation of 1863 are shown in the Statement now submitted, it will be observed that, with the exception of Luckimpore, the figures for the other Districts do not agree with those exhibited in my Annual Report for that year. It is not easy to explain the cause of this, in most instances I believe it to be owing to Planters being able to furnish more complete information now than what they were able to give when the Statements for 1863 were being prepared. In some few cases distrepancies may, I think, be attributed to changes in the managership of factories, for, except in Parc cases, Planters do not retain copies of the forms they fill in each year. They have, therefore, to trust a good deal to memory when they are asked to give particulars of their operations for former years.

5. Nearly all the Deputy Commissioners of this Division notice the difficulty which they experience in collecting the necessary information required to be embodied in their Annual Tea Reports - a difficulty which, they unanimously agree in saying, keeps increasing each year with the extension of Tea planting.

6. A suggestion which I made to District Officers about the close of last year to endeavor to form a Committee of Planters to aid them in procuring reliable information on the points more acquired has, I regret to say, been found on trial to be not generally practicable. Captain Sconce, the Deputy Commussioner of Sechagur, stated that, on mentioning the subject to some of the Planters of his District, "objections were raised on the District, ground that genelitation who are willing to furnish the Deputy Compis-over with official informations as to their own cetates are reticent with regard to each other." The other Deputy

with regard to each other." The other Deputy Commissioners reported of the subject much to the same effect as Captain Service.

7. It is most desirable that Annual Reports on the progress of year cultivation on Assam should not be as equipment as least until the proportion which the trade is a convenient in more sarry to watch its further development. Meanwhile I think it imported that the Reports which are submitted should be as necessate as they can be varie. I purpose, herefore, to call on Deputy Commissioners, after one substitution with some of the influential Planters of their Districts, to prepare and submit, for my consideration and eventual reference to Government, a well devised which the desired object can be obtained.

A sold about the Proceed first to notice the progress of Tea opera-tions in the District of Luckimpore:—

29. Luceimfore.—There were about 4,000 cores of waste land brought under cultivation during the year, making the total extent of land planted with Tea in this District close on 12,000 acres. The Deputy Commissioner, Captain Comber, sates that planting it now on such a large scale that the local labour available is found altogether insufficient to cultivate and work the gardens already in existence, and that, during his gardens already in existence, and that, during his cold weather tour in the District, he saw fine gardens from which no Tea had been made from want of hands to plack the leaves; this may pro-bably account for the falling off of nigh 10,000 lbs. of Tea observable by the Returns, but Captain Comber accounts for it as follows :-

"I account for this by the fact that in the "previous year the plants had been over-pluck-"ed, and that in consequence it was necessary to "nurse them this season, in addition to which "the fall of rain this year fell short of what is "usual and the yield of lonf was consequently "less; on the other hand there were gardens which "this year offsined the age at which they are "this year attained the age at which they are "usually plucked. I may here remark, bowever, "that the data on which these statistics are " based, though certainly exhibiting a fair approximation, cannot be considered altogether reliable. I have been for the last two and a half "mouths endeavoring to obtain correct inform-"ation from the Planters, and although none offer "any objection to afford it, they still put off or "neglect to fill in the Beturns, and I have been obliged in some instances, to supply the onismon's from my own personal knowledge of the gardens and the labour and means of the parties "working them. The working of the older and "more extensive estates, however, I believe to " be correctly stated."

10. In connexion with the fall in the price of Tea seed, Captain Comber makes the following remarks to shew that the extension of Tea planting has not thoreby been in any way discouraged :-

"The value of Tea seed has fallen considerably since my last Report was submitted. The best seed which last year fetched Rupecs 200 the mund can scarcely find purchasers this year, and yet there is no indication of Tea-planting teroming an unpopular occupation; on the con-teary, both the number of the European Assistants have increased and their salaries have also risen.
The great Companies now find that they can afford to send out educated young an from England on salaries sufficient to make them look England on salaries sufficient to make them look to Assam as the spot in which their independence, if not their fortane, is to be achieved. I believe within the last two months to more large Companies have been formed in London, and a staff of young Assistant are on their way out from England to learn the business of Tea-planting and Ten making.

11. Salaroun.—In the Supersagur District there are now 1.1.2 acres of land cultivated with Tea, of this 2.192 sures were planted out buring the year of poet. The Beputy Commissioner believes that author extensions were arrested only from incufficient, labour. The

outturn of manufacture. Be. vas 17,18 shewing an increase of 1 1,275 lbs. outturn of the previous var.

19. In noticing the of ratio, of the Waste Land Rules in his District and their Souring on Tea planting, Lieutenant Sconce remains as Marky. follows:-

"The Waste Land Rules have on he whole disappointed European Planters. The spas have been a great deal of competition introduced in petrion introduced in peans. It was the tean competition below by

\* Norse. There have been a greater, number of speculating Equopesns. It was the keen competition among the Europeans that gave the hint to the Natives to bid up for the land in order to sail again to the Europeans.

At. II.

speculating Natives, who have caused the price to like there

instances the real value of the land has been so much exceeded that the purchasers have been unable to part with their lots. For the moment, Government may have appeared to have prefited, but it remains to be seen whether or not bidders can pay the exceptant price within the prescribed period. These speculates can have done little to advance the contry. Few of them are capitalists, and none mean to apport labour or spend much money in opening out the jungle. Those who have overbid the real value of the land and are unable to sell again are of the land and are abatic to simply obstructing others who would be willing and able to extend Tea planting deal Tea Planters are regretting the abolition of the sld Rules of 1854, which had advantages not existing in the new Rules.

"That the Rule requiring answey before sale was ever suspended cannot be more regretted than it is by Officers whose duty it is a administer the new Rules. To do instice to opposing claimants and to guard the interests of Jovernment without the guide of a presumming survey is absolutely impossible, it is morely working in the dark and the result is unsatisfactory to every body. The lowest system allows among chiled grasping persons to extend their limits every body. The wasent system allows impring-cipled grasping persons to extend their limits beyond their right, (for it matters little how vigilant fiscal Officers are when boundaries are unknown,) old established rights are jeopardized, entire fots or portions of lots may be put up to sale more than once, and consequently lifigation is promoted, whilst the total absence of survey prevents the truth from being discovered. The original clamour which called forth these Rules has now passed by the Eurapean Planter have has now passed by the European Planters have had a taste of what they wanted, and there is a feeling of disappointment arising. I believe from the fee-simple not being obtainable without a sale by auction. The disagn with these Rules is made manifest by a large ness with which the common tenure of the countries now accepted."

with which the common tenure of the country is now accepted."

13. Nowgown.—In Nowgowa Teas danting appears to have progressed favorably during the year; 1,687 across waste hads were cleared and planted, making the total area under entitivation in the District 5,700 days. The catturn of manufactured Teas is return a self-self like or 8,226 lbs. less than that of the previous year.

14. Apprications for waste lands for Teaplanting were not maintenak during the year; the Deputy Commissioner, Mr. Vahan, a counts for this in the following able remarks on the

chaf the new Rules for the

application or land have not been cours as might have been expected, and Phyticis tell me that they are deserted from applying, not so much fear of competition at the sales as by the additional to advertisement. delayer and chillculting evious to advertisement. This is the partly to want of care in making Sketch of the and in fixing boundaries which exclude the land belonging to others, partly to the want of excel surveys and draughtsmen partly to the severe pressure on the officials of the corrent work in other Departments, which has precluded the speedy inspection of lots as to the examination of these lots on the Meuzadars, a deal deficient in this District in the intelligence and zeak which should lead them to assist applicants by pointing out clearly what should be amended in their applications, and partly to most of the Planters having now acquired as much land as they can manage and being now engaged in improving what they have and organizing Companies to work it.

the relyestics in this District have my idea of cultivating. The for themselves, but buy well-situated land at the present low rates to re-sell

t of the Natives who apply for land under the new Rules for the growth of the staple crops of the country is virtually the redemption of the Land Revenue on terms very advantageous to themselves. Though their desire to invest their savings in land affords a very pleasing proof of fidence in our Rale, and of the accumulation of property and growth of intelligence in the District, the sale at Rupees 2-8 per acre of find low what but capable of easy culture in fee-simple would be very disadvantageous to the Revenue: I will therefore carefully watch these applications and will inform you of their progress; but up to the present time the applications have been for had the clearance of which is so distrable that I have not thought fit to raise the upset price, we an example I may mention that an appli-cation has been made for 500 acres of the Lowkhoo Jungle, land very fertile if tilled, but which interposes between the Station and the Berhampooter a broad belt of malarious jungle, haunsted by wild beasts.

harried by wild beasts.

'a The Planters generally seem very much dissatisfied with the new Rules and the machinery for working them available in this District. They do not wish sales suspended until curvey is complete. The thier is rather to obtain possession of a relocative amount of land for immediate clearing and planting and to have g vague claim on the surfouring treet sufficient to prevent ether exactly the mear them than to settle at once their exact boundaries. They therefore, are in no harry to domardite, sand therefore boundary disputes have hardly yet lies in the fluoring the present year says Treenerus laws been mortagized to inflictually a asymmer, and others are in the market, some in the Loudon market, and mortagizers and purchasers will som he desirons to know the Gract tract ever which the chart acquared rights, so that there will so a he uncertained. I directionately it do not see at present what

materials there will be for the satisfactory teci-tion of these disputes. Owing 18 the production Office work the Sketch Maps have per been then-tified on the ground by Deputy Collectors, and I think from all I see and hear it will be very difficul-cult to identify them hereafter. The Sketch Maps v, do not show the interior of the grant, and I among straid the names given to many of the streams, and swamps are purely arbitrary, and that there will be great doubts about their identification presently. presently

"The desire to obtain immediate possession and to prevent subsequent augmentation of the suction price in consequence of improvements effected by the applicants has led to the system of cultivation leases being in great favor. During year seven of these leases were granted for 270 acres of land and eventeen applies one were made. These leases are in layer with the more wealthy Natives, and I think the system deserves every encouragement as it encourages improve-ment without any immediate sacrifice of Revenue, and is preparing the way for a settlement more satisfactory than the present."

15. Mr. Raban notices the demand for labour in the District as follows:—

"The demand for Jabour is beginning to exceed the supply, and though this District, with a little assistance from Darring, has hitherto met its requirements; Planters are new beginning to have recourse to importations from Bengal and Hindustan. The growing toute of the District is fast finding occupation and maintenance for those who worked for the Planters, and it is more profitable, as well as more pleasant for the Byot, to grow and sell mustical, rice, and notion than to work in a Tea garden. The Ryot is beginning to clear himself from the Jude Deduces in which he was sunk by the famine of 1857 and an advance loses much of its attractions : very few coolies have bitherto been imported from Bengal"

10. Darsuro,—Next to Luckimpore the largest charances made during the year appear to have been in Durrang. The area now under Teacultivation in this District is 4,734 acres, or considerably more than double what it was last year. The outturn of manufactured Tea was 58,800 lbs. or nearly three times the outturn of the preceding season. Captain Lamb, the Dopaty Com-missioner, says that there is an ulmadance of local labour available in the District, provided the plantations are well situated in the vicinity of the large villages which can be drawn on for labour. Captain Lumb adds that the Ryois are beginning to look on service in Tea factories as more profitable than attending to their crops. It will be marreet that in the Nowgong District will be marrent that in the Nowgong District Mr. Raban reports quite differently as regard the Evots of his District, which is constant from Darrang only by the River Bernamposter; the cause of this difference of feeling may be ascribed to the Darrang District Song inhalated by Cacharies, a hardworking industrious people, from whom, before the growth of Tea stanting in the District issue, labourers has be respectively. the District itself, laboraters for the restol as Jan were obtained other countries. In the restol as Jan were obtained other countries.

17: So anxions are Positers in Durrung to exclude others from thing near them that many have purchased large tracts of waste land.

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in the vicinity of their present plantations, and a tall these lots have been sold without survey, and heir boundaries are unknown, it is impossible, in most instances, for new settlers to acquire and in the neighbourhood of old plantations, which of course are near the most eligible sites the regards labour. The Planters in Durrung have also succeeded in effecting a combination among themselves to prevent any competition at the land sales, and the land in Durrung has consequertly been almost all of it sold at, or very little above, the upset price.

18. KAMROOF .- The Kamroop District was, I believe, the last of all the Districts of Assam (with the exception of Gowalparah) into which Tea planting was introduced. One thousand one hundred and fifty acres were brought under cultivation during the year of review, making a total area of 2,703 acres now cultivated with Tes in this District. The Deputy Commissioner seems to think that the operation of the Sale Rules has tended to discourage settlers, as he says that they consider it a great hardship and injustice that lands prospected and selected by them at considerable trouble and expense should be put up to public sale at which they may be outbid by people, who thus reap the fruits of their labour and experience.

19. The Deputy Commissioner thinks that Planters in his District will soon have to rely Planters in his District with some their gardens, entirely on imported coolies to work their gardens, as local labour is becoming exhausted, wages having risen so very high that a cooly after a having risen so very high that a cooly after a short period of service realizes sufficient to become independent and turn cultivator, when he makes more by the sale of his produce than he would be examing in service.

20. Gowalparan - Gowalparah is a permanently-acttled District, and, with one exception, the twenty-two Tea gardens in it are all owned by Natives, who lease their land from the Zemindars rent-free for the first two or three years, from which would appear that Zemindars are beginning to encourage Tea planting. Captain Morton reports thus of the local labour by which these Tea estates are worked :-

"The coolies on the estates are for the most part paid in kind. They receive an advance of, say, Rupees 80, and enter into agreement to serve so many years. Whilst in service they receive a seer of rice besides a little oil-and salt per diem, and a Burkapur (co tton covering) and Gamcha (cloth to tie round the head) annually. A small amount in the way of cash payment is deducted annually from the original

"There certainly are to be found men who will accept service on such terms in preference to the free and highly paid strvice of Government, but it is not to be scandered at that the gardens dependent on their labour are very backward."

21. The following extract from Captain Monor of Seports til explain why European Plantary Lard to settled in Gowalparah :—
"There is no best and soil for Ten in this District. The land to or the Garrow Hills is perhaps second to not be Assam, but the permanent settlement of Gowalparah will, so long

from Government, debat Eur from ent

224 GENERAL REMARK year of report there we \$366 Propplantations in Assam, of these

The second second	The second	exhibited in the Dis-
1. Assam Tes	Company.	frict Returns as
2. Upper Assam	ditto.	· Limited Liability
3. Debrooghur	ditta."	Thursen Markety
4. British India	ditto.	Companies, the names
5. Luckimpore	ditto.	of which are given in
G. Muttack	ditto.	
7. Jorehaut	ditto.	the margin, 198 are
8. Goldghat	ditto.	individual European
9. Seebsagur	dible.	
10. East India	ditto.	Planters er European
11. Hiskouth	ditto.	Firms, consisting
12. Durrung	dicto.	two or more person
13. Texpore	ditto.	two or more hersons
14, Colonial 15, Imperial	disto.	in partnership, and
16. Amicable	ditto.	149 are Natives.
17. Cachar and Aus		
18. Central Assam	ditto.	23. The greater
19. Lower Assem	Kuditto.	portion of the Native
200 200	The Assessment of the Indian	ALTONOMY SECTION AND ADMINISTRATION OF THE PARTY OF THE P
A		Proprietors are in

the Sechsagur District, and the extraction their operations, with few exceptions, are not exhibited in the Return received from that District, believe that several of these Native Proprietor are merely owners of grants with nominal cless. auces on them.

The total area of waste land taken up for Tea planting in Assam is 5,104/5 ares, of this about a twelfth portion only or 15, acros, has been brought under cultivation, including 12,838 acros cleared and planted in the car of report.

25. The outturn of last year was 25,05,664 lbs. of manufactured Tea, being over 3,007,000 lbs. less than what it was estimated to be last vear. In two Districts, etc., Luckimpore and Nowgong, there is a decrease shown in the outturn as compared with last year; in the other four Districts the crop appears to have been more abundant, and an increase—although not a very large one—is shewn over the yield of 1863.

26. The estimated outturn for the present year, i. e., 1865, is 82,26,765 lbs., which if obtained would give the value as realized in England of the Tea trade of Assan at about 8,00,000 Rm.

27. There are 36,258 labourers (including women and children) employed in the Tea gardens in Assam. Of this number 11,917 are imported and 24,841 are local. Viewing the extent of land under cultivation, there seems grounds for apprehension that same of the lands already cleared must be allowed to by the lands already cleared must be allowed to by the lands are labourers available does not give even one man jungles during the ensuing year since the interper of labourers againable does not give even one man for each acre under cultivition, which know from the concurrent testimony of the bist and assess experienced Planters to no factory can be efficiently worked with a lesse proportion of labour.

28. No Returns have been an of the number of deaths and descritions amongst imported labourers, but under the operations of the Act recently passes for regulating Coolyc Contracts information on these important heads will not be wanting in future.

hoth with receive to the present espect of both list in an appears to be now well in an appears to be now well its advantages generally known it and at Calcutta, and though the ultivation are not so great. It they they still, and for a long time to use, continue to assure to the account a handsome return industry. I cannot, however, it is a continue to assure to the account a handsome return industry. I cannot, however, it is a continue to a store in many cases for Shareholders in Associations which have purchased Tea estates at incredible ordinance on the cost of their formation, but if losses occur under these circumstances it will not be the fault of the Tea, but of the populations which the most extravagent.

stants it will not be the fault of the Tea, but of thissound speculations which the most extravagant profits would not have realized. The only real mawbacks I know of to the utmost extension of the cultivation are the want of labour and the absence of a proper survey. Both these obstacles I am apprehensive, may continue to retard progress for some time to come, and their removal is a patter of policitude as much of the Government and the Local Authorities as it is of those englished in Transparting.

30. There are at man present now both in India and Europe who I be an interest to the Tea plantation of Assam, but, who yet, if they are vaguely acquainted with geographical position of the Province, we have vikely to have had an opportunity of informing themselves of its principal fea tures, the loss and boundaries of the different Districts, and the situation of the Tea gardens in them that I have thought it might be useful to append to this Report a Map giving all this information.\*

It has no pretension to rigid acquiracy which a Norm-Of the 402 Tes gardens for even during sits

Nors.—Of the 402 Tes gardens now in Assam, the positions of SSI are shawn with approximate correctness in the Map Of the remaining 161 setates, awanty we are in the time alphan bistrict, and the rest are either newly aken up grants, the positions of which could not be assectioned, or small gardens close to and attached to other gardens copie to and attached to other gardens entered in the Map, so that it was undecassary, and at the same time not easy, to shew those as distinct gardens.

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I con'd not command, for even during sits compitation several plantations changed hands and new ones were firmed; but most persons, I think, will find their properties registered in it, and it will serve, I hope, to give the

a distinct gardens

I hope, to give the public a tolerably accurate notion of the general distribution of Tea cultivation in Assam.